



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

MEMORANDUM

APR 28 2004

SUBJECT: Transmittal of Inspection Report - RCRA

FROM: John Bosky, Team Leader
ENSV/ARCM

TO: Jody Hudson, Associate Director
ARTD/RESP

This memorandum transmits the following inspection report conducted by the Environmental Services Division:

FACILITY: Eagle Engineering INSPECTION DATE: 04/07/2004 INSPECTION TYPE: SEE- CEI
ADDRESS: 105 East LeClaire Road INSPECTOR: Cherry- G ID NUMBER: IAR000006288
Eldridge SIC CODE: ACTIVITY NUMBER:
IA 52748 FACILITY ACTIVITY:

PRELIMINARY INSPECTION FINDINGS: NOV/NOPF ISSUED - Yes SINC - No

NOPF: failure to label used oil storage drums.

COMMENTS:

MULTIMEDIA: 1) Screening done - Yes Screening forwarded - No Forwarded to: ☐ CAA
☐ CWA ☐ RCRA ☐ E/T ☐ UST ☐ CFC ☐ Wetlands ☐ SPCC ☐ UIC ☐ EJ ☐ PWS ☐ All
2) Inspection was part of a multimedia inspection with the following participating programs* -

* A=CAA, W=CWA, R=RCRA, T/E=TSCA/EPCRA, U=UST, C=CFC, U-I=UIC, S=SPCC, Wet.=Wetland, All

ENVIRONMENTAL JUSTICE: Inspection was conducted in EJ (per MM Screening Checklist) - No
SMALL BUSINESS REGULATORY ENFORCEMENT ACT (SBREFA): Information provided - Yes

431550



REPORT OF RCRA COMPLIANCE INSPECTION

At

EAGLE ENGINEERING, INC.

2701 South 1st Street

Eldridge, IA 52748

(563) 285-7515

EPA ID Number: IAR000006288

On

April 7, 2004

By

U.S. ENVIRONMENTAL PROTECTION AGENCY

Region VII

Environmental Services Division

INTRODUCTION

At the request of the Air, RCRA and Toxics Division (ARTD), I conducted a RCRA Compliance Evaluation Inspection (CEI) at Eagle Engineering, Inc. in Eldridge, Iowa on April 7, 2004. The inspection was conducted under the authority of Section 3007 of RCRA, as amended. This inspection was conducted as a Level B Multimedia Inspection and the Multimedia Screening Checklist is included as **attachment 1**. This report and attachments present the results of this inspection.

PARTICIPANTS

Eagle Engineering, Inc. (Eagle):

James W. Parr, Plant Superintendent

Jim Parr, Maintenance Supervisor

Betty Perion, Purchasing Agent

U.S. Environmental Protection Agency (EPA):

Glenn Cherry, Civil Investigator, NOWCC/SEE

INSPECTION PROCEDURE

During my drive-by inspection, I observed that the Eagle Engineering facility is a metal building on the east side of 1st Street. The address for the facility is 2701 South 1st Street, but the entrance to the parking lot is from Fischer Court, **see photo #1**. The area is primarily farmland with two or three businesses to the south and one residence on the north. There were no areas of concern observed during the drive-by inspection.

I arrived unannounced at approximately 8:58 a.m. and entered the front door into a waiting area. I contacted an employee at the front desk and presented my business card to her. I asked to see the plant manager, James W. Parr. Mr. Parr responded to my location and escorted me to his office. I presented my credentials to Mr. Parr and informed him that I was at the facility to conduct a CEI based on the Unmanifested Waste Report (Waste Report) sent to the EPA by Safety Kleen, **see attachment 5**. I made Mr. Parr aware of his confidentiality rights and presented him with a copy of US Federal Code 1001 and 1002, which he read and returned to me, concerning false statements. During the inspection, I obtained a facility description, process information and waste stream information from Mr. Parr. Mr. Parr has been in this position since 1990. Mr. Parr served as the official facility representative during the inspection.

FACILITY DESCRIPTION

Eagle Engineering, Inc. is a tool and die shop that was established in 1990 at 105 LeClaire Road in Eldridge, Iowa. Eagle moved to 2701 South 1st Street in 1998. A Notification of Regulated Waste Activity (Notification) was submitted for each location. The facility is in a rectangular metal building containing both administrative and shop space. The building contains approximately 28,000 square feet of floor space. There is a parking lot in front of the building, the south side, and a concrete apron on the east. The Eagle facility covers approximately 3 acres of land with less than half of it paved.

FINDINGS AND OBSERVATIONS

On July 23, 2003, Safety-Kleen submitted a Waste Report to the EPA. Safety-Kleen reported that, on 2/12/03, they had transported a shipment of spent solvent, classified as hazardous waste, from Eagle and that no manifest had been provided as required by §262.20. The purpose of my inspection, in response to this Waste Report, was to determine the generator status of Eagle and to verify compliance with applicable RCRA regulations.

According to the Safety-Kleen Waste Report, the generator status for Eagle on 2/12/03 was as a SQG. Attached to the Waste Report was a copy of the invoice documenting the shipment of spent solvent picked up from Eagle. According to the invoice, Eagle had shipped 2 drums (34 gallons) of spent solvent. The invoice appears to have the number 34 written over the number 30 for the amount in gallons reported in box 12. I asked Ms. Perion to explain what appeared to be a change on the invoice. Ms. Perion stated that she did not know what had

happened, or why, but pointed out that previous invoices had listed the quantity of spent solvent as 30 gallons. Ms. Perion also pointed out that, in the billing portion of the 2/12/03 invoice, the amount shown was 34 gallons of clean solvent delivered and 30 gallons of spent solvent picked up. In making my determination, I used the amount entered in box 12. Either way, it is Eagle's responsibility to ensure that the correct amount is entered. To determine Eagle's generator status, I reviewed the MSDS for Safety-Kleen 105 Solvent and found that the listed weight is from 6.4 pounds per gallon to 6.7 pounds per gallon, see **attachment 8**. Using the 34 gallon figure, the weight of the spent solvent would range from 98.9kg to 103.5kg and Eagle could be either a CESQG or a SQG. As a CESQG, Eagle does not need to use a manifest when shipping hazardous waste. As a SQG, Eagle was required to use a manifest or to have a tolling agreement with the transporter. I reviewed the Safety-Kleen invoices maintained by Eagle and noted that it contained the information required for a tolling agreement, **see attachment 6**. This tolling agreement meets the requirements of §268.(7)(a)(10) and Eagle is not in violation of §262.20 for the shipment on 2/12/03 which was attached to the Waste Report.

According to Betty Perion, the purchasing agent for Eagle, Safety-Kleen provided Safety-Kleen 105 Solvent and picked up spent solvent from 2000 until June of 2003, see MSDS **attachment 8** and invoices, **attachment 6**. During the record review, I looked at 4 invoices documenting shipment of spent solvent with Safety-Kleen. They are:

DATE	DRUMS	GALLONS
10/01/01	1 drum	no gallons entered
6/3/02	2 drums	30 gallons
2/12/03	2 drums	34 gallons
5/2/03	2 drums	30 gallons

In June of 2003, Eagle discontinued their association with Safety-Kleen.

The transporter for Eagle's used oil is RILCO Fluid Recovery Services. I reviewed recycling manifests for transporting used oil from February 2001 until the present. Those manifests are as follows:

DATE	AMOUNT	TYPE
February 9, 2001	360 gallons	oily water mix
June 12, 2002	1500 gallons	oily water mix
June 20, 2002	600 gallons	oily water mix
January 16, 2003	250 gallons	oily water mix
On June 27, 2003	250 gallons	used oil
November 17, 2003	900 gallons	oily water mix/coolant
November 17, 2003	700 gallons	oily water mix

All shipments of used oil were documented on recycling manifests. For additional details, **see attachment 7, pages 1 through 8.**

In June of 2003, in addition to transporting Eagle's used oil, RILCO began providing Regular Mineral Spirits (RMS) solvent and picking up spent solvent for Eagle. The MSDS for the solvent is included as **attachment 9**. On 9/16/03, RILCO picked up and transported 34 gallons of spent solvent, documented on a Bill of Lading. On 12/9/03 they picked up and transported an additional 34 gallons of spent solvent, also reported on a Bill of Lading, **see attachment 7, pages 9 and 10**. According to RILCO, no manifest is needed and the EPA number does not have to be used because the spent solvent is managed as product under §261.2(e)(i), **see attachment 10**. I contacted RILCO by phone and was informed that the RILCO representative handling the Eagle account, Kevin Atwood, stated that the solvent is transported to Chemical Solvents, Inc. at 3751 Jennings Road Cleveland, OH 44109-2889 (216) 741-9310 where it is used as a direct ingredient in the manufacture of roofing material.

During the walk-through inspection, I was accompanied by the facility representative, James W. Parr, and by the maintenance supervisor, Jim Parr. Near the center-south portion of the shop, I observed a parts washer with the lid closed, **see photo #2**. This parts washer was identified as a Kleentec Electric-Operated Parts Washer w/floor stand, 45 gallon, Model KTE1045. Jim Parr stated that the only time that the lid is open is when employees are using it to clean parts and equipment. The parts washer uses mineral spirits provided by RILCO. The solvent remains in the parts washer until it is pumped out by RILCO.

In the southeast corner of the shop, I observed a large horizontal boring machine, **see photo #3**. The horizontal borer uses Blasocut 2000, as a coolant and it is circulated through the machine during the boring process, **see MSDS attachment 11 and photos #4 and #5**. As the coolant is returned to the reservoir at the bottom of the borer, it takes with it oil which is used to lubricate the machine, **see photo #6**. This oil floats on top of the coolant and is suctioned into a separator, **see photo #7**. When the separator tank becomes full, it is drained into a 5 gallon container then poured into a 75 gallon tote, **see photo #8**. The used oil remains in the tote until it is pumped out by RILCO. The Blasacut is never recycled or changed but new coolant is added periodically.

Just south of the horizontal borer is a surface grinder, **see photo #9**. This grinder is cooled and lubricated with Long-Life 20/20, **see attachment 12**. The coolant/lubricant is managed as used oil, **see attachment 7**, but is stored separately from the used oil collected from the horizontal boring machine **see photo #10**. This storage drum was not labeled as used oil in violation of §279.22(c)(1), number 1 on the NOPF.

Adjacent to the surface grinder is a Blanchard grinder, **see photo #11**, which uses Germa-Cert as a coolant/lubricant, **see attachment 13**. This coolant/lubricant is managed as used oil, **see attachment 7**, but is stored separately, **see photo #12**. This storage drum was not labeled as used oil in violation of §279.22(c)(1), number 1 on the NOPF. Along the south wall are two small electric saws. These saws use Mobilmet Sigma cutting oil as a lubricant while cutting, **see MSDS attachment 14**. This oil is not recycled and additional oil is added as needed.

According to Ms. Perion, the coolant for the surface grinder and the Blanchard grinder is picked up as "oily water mix" by RILCO, stored at their facility until they have a full load, then transported to a Cedar Rapids waste separator for recycling. The used oil from the horizontal boring machine is already separated when picked up by RILCO. It is stored at their facility and transported to an asphalt company for burning.

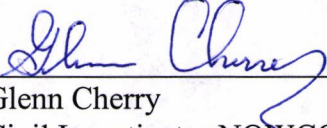
RCRA Status

During the time that Safety-Kleen was a provider and a transporter of spent solvent, Eagle was classified as a CESQG generating less than 100kg of hazardous waste per month. Since June of 2003, Eagle is a non-generator of hazardous waste as documented in **attachment 10**, RILCO'S Product-In and Product-Out program. According to the RILCO representative that services Eagle, Kevin Atwood, the spent solvent is transported as a product to Chemical Solvents, Inc. at 3751 Jennings Road Cleveland, OH 44109-2889 (216) 741-9310. Mr. Atwood further stated that Chemical Solvents, Inc. uses the spent solvent as a direct ingredient in manufacturing roofing material.

Eagle is a generator of used oil.

Summary

During the exit interview, I informed Mr. Parr that Eagle had failed to label the two drums of coolant/used oil from the surface grinder and the Blanchard grinder, in violation of §279.22(c)(1). Mr. Parr signed the NOPF as acknowledgment of receipt, **attachment 2**. Mr. Parr signed the CBI form indicating that he was not claiming any information obtained during the inspection as confidential, **attachment 3**. Mr. Parr also signed the Receipt For Documents and Samples as acknowledgment of copies of documents copied and provided for the inspection report, **attachment 4**. Mr. Parr also stated that, in the future, he would ensure that all used oil storage drums are labeled as “used oil.”


Glenn Cherry
Civil Investigator NOWCC/SEE
Date: 4-27-04

Attachments

1. Region VII Multi Media Screening Checklist (one 2-sided page)
2. Notice of Violation (1 page)
3. Inspection Confidentiality Notice form (1 page)
4. Receipt for Documents form (1 page)
5. Unmanifested Waste Report and letter (4 pages)
6. Safety-Kleen Invoices (5 pages)
7. RILCO Manifests and Bills of Lading (10 pages)
8. MSDS for Safety-Kleen 105 Solvent (12 pages)
9. MSDS for Regular Mineral Spirits (9 pages)
10. RILCO Product In - Product Out Fax (5 pages)
11. MSDS for Blasocut 2000 (3 pages)
12. MSDS for Long-Life 20/20 (4 pages)
13. MSDS for Germa-Cert (5 pages)
14. MSDS for Mobilmet Sigma (6 pages)
15. Inspection data gathering sheets (7 pages)
16. Photographs, 12 photos, (4 pages)

REGION VII MULTIMEDIA SCREENING CHECKLIST

Facility Name: EAGLE ENGINEERING Inspector: BRENN CHERY
 Facility Ownership: _____ Primary Media: RCRA
 Street: 105 E LEECLARK RD 2701 S 1ST Inspector Phone Ext.: 7155
 City: ELDRIDGE State: IA Zip: 52749 Date: 4-7-04
 Phone: 563-285-7515 Facility Contact: JAMES W PARK SIC code: _____
 Number of Employees: 55 Work Hours/Shifts: 2 SHIFTS 7:00 TO 3:30 AND 3:30 TO 12:00
 Facility activity and major process description: TAC AND DIE SHOP

(Check all that apply): Painting/Coating (Water-based ☐, Solvent-based ☒); Printing ☐; Reacting ☐; Formulating ☐; Distilling ☐;
 Parts Washers/Degreasing (Water-based ☐, Halogenated-based ☐, Non-halogenated-based ☐); Combustion (boiler, furnaces, oxidizers) ☐;
 Electroplating (Chrome ☐, Other _____); Electro-less plating (Type _____)

ENVIRONMENTAL JUSTICE (Note: Forward to EJ if a concern is identified during your inspection or in one of the areas below)

1. Is the facility located in a low income area (e.g., with many abandoned and dilapidated properties)? No ☒ (stop) Yes ☐
 If yes, is facility less than 1000 feet from nearest routinely occupied property (house, school, etc.)? No ☐ (stop) Yes ☐ → Forward to EJ

TOXIC SUBSTANCES CONTROL ACT (TSCA) EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT (EPCRA)

1. Does facility use more than 200 gallons or 1,500 pounds per month of the following (check all that apply): Acids ☐, Bases ☐, Anhydrous Ammonia ☐, Chlorine ☐, Chlorinated Solvents ☐, Solvent-Based Paints ☐, or Solvents ☐? No ☒ (stop) Yes ☐
 If yes, have Toxic Chemical Release Forms (Form R) been submitted to EPA or State? Yes ☐ (stop) No ☐ → Forward to TSCA
 Does facility store more than 100 gallons or 1,000 pounds of the following (check all that apply): Acids ☐, Bases ☐, Bulk Chemicals ☐, Anhydrous Ammonia ☐, Chlorine ☐, Chlorinated Solvents ☐, Fuels ☐, Gases ☐, Solvent-Based Paints ☐, Solvents ☐? No ☒ (stop) Yes ☐
 If yes, have Hazardous Chemical Inventory Forms (Tier II) been submitted to local and state governments (Emergency Planning Committees or State Emergency Response Commission)? Yes ☐ No ☐ → Forward to EPCRA
 If yes, have Risk Management Plans been submitted to EPA under Section 112r of the CAA? Yes ☐ No ☐ → Forward to EPCRA

3. Does the facility have any equipment that contains PCB's at concentrations >500 ppm? No ☒ (stop) Yes ☐
 If yes, is equipment leaking (including wet or weeping equipment)? No ☐ (stop) Yes ☐ → Forward to TSCA (Get Photo)

CLEAN WATER ACT (CWA) - National Pollution Discharge Elimination System (NPDES), Industrial Pretreatment, Storm Water, & Wetlands

1. Does the facility discharge any wastewater to storm sewers, surface water, or the land? No ☒ (stop) Yes ☐
 If yes, are all wastewater discharges permitted? Yes ☐ No ☐ → Forward to CWA
 2. Does the facility have process wastewaters that are discharged to a city POTW (Publically Owned Treatment Works)? No ☒ (stop) Yes ☐
 If yes, are the discharges permitted by: State? ☐ City? ☐ - If yes, Stop here. No ☐ → Forward to CWA
 If yes, does the city have a state or EPA approved pretreatment program? Yes ☐ No or Don't Know ☐ → Forward to CWA
 3. During rainfall events, can storm water carry pollutants from manufacturing, processing, storage, disposal, shipping and receiving areas, or from construction sites >5 acres, to storm sewers or surface water? No ☒ (stop) Yes ☐
 If yes, does the facility have an NPDES permit for these storm water discharges? Yes ☐ No ☐ → Forward to CWA
 4. Did you see any wastewater discharges not identified by the facility? No ☒ (stop) Yes ☐ - Identify location, time, appearance of discharge: _____ (Get Photo) → Forward to CWA
 Does the facility have any wetland areas (e.g. streams, ponds, or temporarily wet areas)? No ☒ (stop) Yes ☐
 If yes, have any wetland areas that have been dredged or filled, channelized, dammed, or had gravel removed from within the last 5 years? No ☐ (stop) Yes ☐ - Identify location and timeframe _____ (Get Photo) → FWD to Wetlands

SAFE DRINKING WATER ACT (SDWA) - Underground Injection Control (UIC) & Public Water System (PWS)

1. Does facility discharge any liquids to the subsurface (septic systems, disposal wells, cesspools, etc.)? No ☒ (stop) Yes ☐ → Forward to UIC
If yes, do these liquid wastes consist of sanitary wastewater only? Yes ☐ No ☐
2. Does facility provide drinking water to 25 people or more from its own source (private well, pond, etc)? No ☒ (stop) Yes ☐ → Forward to PWS
If yes, does the facility test or monitor its drinking water in order to comply with state regulations? Yes ☐ No ☐

CLEAN AIR ACT (CAA) and CFCs

1. Do you see any dense, non-steam, smoke or dust emissions leaving the facility property? No ☒ Yes ☐ → Forward to CAA
Source: _____ (Get Photo)
2. Does the facility have any new air pollution emitting equipment that was constructed or installed in the past 5 years? No ☒ (stop) Yes ☐
If yes, is equipment permitted? Yes ☐ No ☐ → Forward to CAA Describe: _____
3. Does the facility have any cooling units that contain >50 lbs of refrigerant? No ☒ (stop) Yes ☐ → Forward to CFC
If yes, are these units: Self-serviced? ☐ Contract Serviced? ☐ - Service Company: _____
4. Does the facility service motor vehicle air conditioning systems? No ☒ (stop) Yes ☐ → Forward to CFC

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) and UNDERGROUND STORAGE TANKS (UST)

1. Does the facility generate more than 30-gallons (220 lbs./100kg) of hazardous waste per month or at any one time? No ☐ (stop) Yes ☐
If yes, does facility have an EPA Hazardous Waste Identification Number? Yes ☐ (stop) No ☐ → Forward to RCRA
2. Is hazardous waste treated ☐, burned ☐, land filled ☐, put in surface impoundments ☐ or waste piles ☐? No ☐ (stop) Yes ☐
If yes, is the facility permitted for above described activity? Yes ☐ No ☐ → Forward to RCRA
3. Did you see or does the facility have any large quantities of materials that the facility claims to be non-hazardous waste material (>10 drums, roll-offs, waste piles, etc. - exclude clean office trash, cardboard, & packaging type wastes)? No ☐ (stop) Yes ☐
- | <u>Material Claimed To Be Non-Hazardous</u> | <u>How does the facility know these wastes are non-hazardous?</u> |
|---|--|
| _____ | Testing, industry or manuf. info., MSDS, etc. <input type="checkbox"/> ; None available <input type="checkbox"/> → Forward to RCRA |
| _____ | Testing, industry or manuf. info., MSDS, etc. <input type="checkbox"/> ; None available <input type="checkbox"/> → Forward to RCRA |
| _____ | Testing, industry or manuf. info., MSDS, etc. <input type="checkbox"/> ; None available <input type="checkbox"/> → Forward to RCRA |
| _____ | Testing, industry or manuf. info., MSDS, etc. <input type="checkbox"/> ; None available <input type="checkbox"/> → Forward to RCRA |
| _____ | Testing, industry or manuf. info., MSDS, etc. <input type="checkbox"/> ; None available <input type="checkbox"/> → Forward to RCRA |

4. Did you see any leaking hazardous waste containers, drums, or tanks? No ☐ Yes ☐ → Forward to RCRA
Describe: _____ (Get Photo)
5. Did you see any signs of spills or releases (e.g., dead or stressed vegetation, stains, discoloration)? No ☐ Yes ☐ → Forward to RCRA
Describe: _____ (Get Photo)
6. Did you see any chemical or waste handling practices that concern you (access to children/public)? No ☐ Yes ☐ → Forward to RCRA
Describe: _____ (Get Photo)
7. Does the facility have any past or present underground petroleum product or hazardous material tanks? No ☐ Yes ☐ → Forward to UST
8. Does the facility have any underground fuel tanks for emergency generators? No ☐ Yes ☐ → Forward to UST

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC)

1. Does the facility have any aboveground oil tanks (petroleum, synthetic, animal, fish, vegetable), with an aggregate volume >1320 gallons? No ☒ (stop) Yes ☐ - Does the facility have a certified SPCC Plan? Yes ☐ No ☐ → Forward to SPCC
If yes, are there secondary containment systems for the tanks? Yes ☐ No ☐ → Forward to SPCC
If yes, are any tanks leaking where oil could reach waters of the State or U.S.? No ☐ Yes ☐ (Get Photo) → Forward to SPCC

*** PLEASE TAKE PHOTOS TO DOCUMENT POTENTIAL PROBLEMS**

NOTICE OF PRELIMINARY FINDINGS

FACILITY NAME: Eagle Engineering, Inc
ADDRESS: 105 East LeClaire Road Eldridge, IA 52748
3701 S 1st (Present Address) 4-12-04
EPA ID NUMBER: IAP000001399 (OLD) DATE: 4-7-04
IAR 000006288 (Present) 4-12-04

NOTICE: I am not an employee of the Environmental Protection Agency ("EPA"). I am a contractor for EPA retained to conduct compliance evaluation inspections. The following is a list of observations/recommendations found during this inspection which will be reported back to EPA. This is not to be construed as a complete list of observations/recommendations. The EPA will be evaluating the report prepared as a result of this inspection and making the determinations as to what violations may have occurred at your facility.

1. FAILED TO LABEL USED OIL STORAGE DRUMS WITH THE WORDS "USED OIL" IN VIOLATION OF 29.22(1)(1)
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

If you have any questions regarding these findings please contact

The undersigned person hereby acknowledges receipt of a copy of this document and has read the same.

PRINTED NAME: James W PARR TITLE: Plant Super
SIGNATURE: James W PARR

This document was prepared by Glenn Cherry

NOTICE OF PRELIMINARY FINDINGS

FACILITY NAME: Eagle Engineering, Inc
 ADDRESS: 105 East LeClaire Road Eldridge, IA 52748
2701 S 1st (Present Address) 4-12-04
 EPA ID NUMBER: IAP000001399 (OLD) DATE: 4-7-04

IAK 000006288 (Present) 4-12-04

NOTICE: I am not an employee of the Environmental Protection Agency ("EPA"). I am a contractor for EPA retained to conduct compliance evaluation inspections. The following is a list of observations/recommendations found during this inspection which will be reported back to EPA. This is not to be construed as a complete list of observations/recommendations. The EPA will be evaluating the report prepared as a result of this inspection and making the determinations as to what violations may have occurred at your facility.

1. FAILED TO LABEL USED OIL STORAGE DRUMS WITH THE WORDS "USED OIL" IN PURSUANCE OF 329.22(1)(1)
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

If you have any questions regarding these findings please contact _____

The undersigned person hereby acknowledges receipt of a copy of this document and has read the same.

PRINTED NAME: James A. Perry TITLE: _____

SIGNATURE: James A. Perry

This document was prepared by Glenn Cherry

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CONFIDENTIALITY NOTICE

Facility Name	Eagle Engineering, Inc	
Facility Address	105 East LeClaire Road <i>060 (Present 2701 S 15th)</i> Eldridge, IA 52748	
Inspector (print)	Glenn Cherry <i>Glenn Cherry</i>	
U.S. EPA, Region VII, 901 N. 5th St., Kansas City, KS 66101	Date	<i>4-7-04</i>

The United States Environmental Protection Agency (EPA) is obligated, under the Freedom of Information Act, to release information collected during inspections to persons who submit requests for that information. The Freedom of Information Act does, however, have provisions that allow EPA to withhold certain confidential business information from public disclosure. To claim protection for information gathered during this inspection you must request that the information be held CONFIDENTIAL and substantiate your claim in writing by demonstrating that the information meets the requirements in 40 CFR 2, Subpart B. The following criteria in Subpart B must be met:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
2. No statute specifically requires disclosure of the information.
3. Disclosure of the information would cause substantial harm to your company's competitive position.

Information that you claim confidential will be held as such pending a determination of applicability by EPA.

I have received this Notice and <u>DO NOT</u> want to make a claim of confidentiality at this time.	
Facility Representative Provided Notice (print)	Signature/Date
<i>JAMES W PARR</i>	<i>James W Parr</i> <i>4/07/04</i>

I have received this Notice and <u>DO</u> want to make a claim of confidentiality.	
Facility Representative Provided Notice (print)	Signature/Date

Information for which confidential treatment is requested;

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RECEIPT FOR DOCUMENTS AND SAMPLES

Facility Name	Eagle Engineering, Inc
Facility Address	105 East LeClaire Road Eldridge, IA 52748 2701 S 1ST IS PRESENT ADDRESS 4-12-04

Documents Collected? YES___ (list below) NO___

Samples Collected? YES___ (list below) NO___ Split Samples: YES___ NO___

Documents/Samples were: 1)Received no charge___ 2)Borrowed___ 3)Purchased___

Amount Paid: \$___ Method: Cash___ Voucher___ To Be Billed___

The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.

Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:

MSDS - BLASOCUT 2000	3 PAGES
MSDS - MORICMET S122	6 PAGES
MSDS - GERMA-CENT	5 PAGES
MSDS - LONG-LIFE 20/20	4 PAGES
MSDS - VARSOL 18	6 PAGES
LETTER & DOCUMENTS RE: 2-12-03 SETTLEMENT	4 PAGES
USED OIL MANIFESTS 2-9-01	1 PAGE
USED OIL MANIFESTS 6-12-02 & 6-20-02 & 6-24-02	3 PAGES
USED OIL MANIFESTS 1-16-03, 6-27-03, 11-17-03 & 11-17-03	4 PAGES
SAFETY KEEN INVOICES 10-1-01, 6-3-02, 2-12-03 & 5-2-03	4 PAGES
MANIFESTS RILCO - 9-16-03 & 12-9-03	2 PAGES

Facility Representative (print)	Signature/Date
JAMES W PARK	James W Park 4-07-04
Inspector (print)	Signature/Date
Glenn Cherry	Glenn Cherry 4-7-04
U.S. EPA, Region VII, 901 N. 5th Street, Kansas City, KS 66101	

(rev:1/20/93)



July 23, 2003

Eagle Engineering, Inc.
105 E. LeClaire Road
P.O. Box 64
Eldridge, Ia 52748

RE: Unmanifested Waste Report

Dear Generator:

Enclosed is an Unmanifested Waste report completed for hazardous waste removed from Eagle Engineering on 2/12/2003.

A generator who offers hazardous waste for offsite transportation and treatment must prepare a manifest according to 40CFR 262.20. Safety-Kleen provides a completed manifest as part of our service, provided we are aware of the generator regulatory status (Conditionally Exempt Small Quantity Generator, Small Quantity Generator or Large Quantity Generator). Unfortunately, on the service date referenced above, a prepared manifest was not available at the time of service, and the waste was transported without a manifest being completed.

If a permitted TSDF (such as Safety-Kleen's Davenport, Iowa service Center) accepts for treatment, storage, or disposal any hazardous waste from an off-site source without an accompanying manifest, then the owner/operator must prepare and submit an unmanifested waste report (40 CFR 264.76). The enclosed document fulfills this requirement. As generator, you must maintain a copy of this report with your manifest files.

Situations such as this are troublesome for both Safety-Kleen and you, our valued customer. Please be assured your wastes have been properly transported, stored, and disposed of in compliance with all other applicable regulations.

Please feel free to contact me at 563/386-3024, if you have any questions or would like to discuss this matter. I can also be contacted at dlikebe@Safety-Kleen.com.

Sincerely,

Doug Liebe
Branch Manager

ATTACHMENT 5 Page 1 of 4

www.safety-kleen.com

3035 WEST 73rd STREET

DAVENPORT, IA 52806

563-386-3024

FAX 563-386-8749





UN-MANIFESTED
HAZARDOUS WASTE REPORT

I. DATE WASTE RECEIVED (day/mo/yr)

02 12 2003

Page 1 of 2

II. INSTALLATION'S EPA ID NUMBER

IAD098027592

III. NAME OF INSTALLATION

SAFETY KLEEN SYSTEMS INC

IV. INSTALLATION MAILING ADDRESS

3035 WEST 73rd STREET

DAVENPORT IA 52806

V. LOCATION OF INSTALLATION

3035 WEST 73rd STREET

DAVENPORT IA 52806

VI. INSTALLATION CONTACT

NAME (last and first)

PHONE NO. (area code & no.)

LIEBE DOUG

563 386 3024

VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on the inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

DOUG LIEBE BRANCH GEN. MGR.

A. Print or Type Name

B. Signature

C. Date Signed

Codes and Units (for page 2)

SK Handling Codes:

S01 - Container Storage S02 - Tank Storage

Units of Measure:

Pounds P
Short Tons (2,000 lbs) T
Kilogram K
Tonnes (1,000 kg.) M

REC'D

JUL 28 2003

ATTACHMENT 5 Page 2 of 4

RESP

FOR OFFICIAL USE ONLY (items 1 & 2)	1. Date Received	Un-Manifested Hazardous Waste Report		Page 2 of 2
	- - - - 20	VIII. FACILITY'S EPA ID NO.		
	2. Received By	IAD098027592		

IX. GENERATORS EPA ID NO.	X. GENERATOR'S ADDRESS (street or PO box, city, state, & zip code)
---------------------------	--

XI. GENERATOR NAME (specify)	
------------------------------	--

Eagle Engineering

XII. WASTE IDENTIFICATION

LINE NUMBER	A. DESCRIPTION OF WASTE	B. EPA Hazardous Waste Number	C. Handling Method	D. Amount of Waste	E. Unit of Measure
1	Waste Combustible Liquid NOS (Petroleum Napthyl NA 1993 PG III)	D001 D018 D039 D040	S02	34	G
2	RQ (ERG 128)				
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

XIII. COMMENTS (enter information by line number - see instructions)

A. Transporter Name, Address and EPA ID Number
Safety-Kleen Systems, Inc. IAD098027592 3035 West 73rd Street Davenport IA 52806

B. Explanation
Upon receipt at facility, it was noted The generator was SQG and was required to comply with 40CFR 262.20. This waste was placed in an on-site bulk storage tank and was transported to an off-site processing facility.

CUSTOMER NO.



FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
563-326-3024	DOUG LIEBE	04/12/03	03-07	16	0022781428
			CREDIT CODE	PREVIOUS BALANCE	BAL OVER 60 DAYS
			C	417.51	417.51
BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C	
09	0000	N0	0291	0001	
LOCATION			TAX EXEMPTION NO.		
504701					

EAGLE ENGINEERING INC.

105 E LECLAIRE ROAD

P.O. BOX 64

ELDRIDGE LA 52748

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SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
2/10/03	31083	443	319-285-7515	16-410-2784	PU		.07	.07	.07

DEPT	SERVICE/PRODUCT	SERIAL NUMBER	REMARKS/UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)	CHANGE SCH DATE (YY WW)	INV CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1	0044000	44226478		1	390.20	27.31	417.51	0.00	5/30 2 801		12						
2	00100001		2.9000								0						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

TOTAL-SERVICE/PRODUCTS					390.20	27.31	417.51	0.00	CHECK APPROPRIATE BOXES	GOOD	POOR	DECALS IN PLACE AND LEGIBLE	YES	NO	MACHINE PROPERLY GROUNDED	YES	NO
USEPA TRANSPORTER 1 ID NO.	USEPA TRANSPORTER 2 ID NO.	GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.						MACHINE CONDITION & CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>	FUSIBLE LINK INSTALLED	<input type="checkbox"/>	<input type="checkbox"/>	LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	<input type="checkbox"/>	<input type="checkbox"/>
TXR000050933		APR000001399							LAMP ASSEMBLY CONDITION	<input type="checkbox"/>	<input type="checkbox"/>	EMERGENCY CLOSING OF LID UNOBSTRUCTED	<input type="checkbox"/>	<input type="checkbox"/>	SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	<input type="checkbox"/>	<input type="checkbox"/>

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)										12. CONTAINERS NO.	13. TOTAL QTY	14. UNIT WT/VOL	SK DOT NUMBER	5163055	I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.	
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA) NA1993										2	DM	600034	G	801	2	0 TO 220 LBS./MONTH
PG III RQ (0001) (ERG 128) 6.7 LBS/GAL (D018, D039, D040)															INITIALS	
															220 LBS. TO 2,200 LBS./MONTH	
															INITIALS	
															GREATER THAN 2,200 LBS./MONTH	
															INITIALS	

DESIGNATED FACILITY NAME AND ADDRESS		SAFETY-KLEEN SYSTEMS, INC.		I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.		USA EPA ID NO. IAD098027592	
3035 WEST 23RD STREET		DAVENPORT, LA 52806				STATE ID NO.	

PAYMENT RECEIVED SECTION PREVIOUS CREDIT CARD NO.	CASH <input type="checkbox"/>	TOTAL RECEIVED	APPLY PAYMENT TO:		MANIFEST NO.		I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS. *This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.*	TOTAL CHARGE (FROM ABOVE)	
	CHECK NUMBER		<input type="checkbox"/> TODAY'S SERVICE/SALE <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS		XXXXX			WASTE MIN. (FROM ABOVE)	
	INVOICE #	AMOUNT \$	INVOICE #	AMOUNT \$	LDR MESSAGE			TOTAL DUE	
					LDR NOT REQ'D			417.51	
CREDIT CARD NO.				AMEX VISA MC	EXP. DATE	MANIFEST CODE	SEQ #	DO NOT WRITE IN THE AREA BELOW	
						DP	145	0022781428	
REFERENCE				IN THE EVENT OF AN EMERGENCY CALL		By: <u>Colby Norton</u>		0001-8297-69 -7	
						Customer's Authorized Representative			

ATTACHMENT 5 Page 4 of 4

SERVICE AND SALES ACKNOWLEDGMENT

FED. ID NO. 396090019

CUSTOMER

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EAGLE ENGINEERING INC.
105 E LECLAIRE ROAD
P.O. BOX 64
ELDRIDGE IA 52748

GENERATOR

[illegible]ATTACHMENT 6 Page 1 of 5

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 09/00)

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 09/00)

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 09/00)

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 09/00)



SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 11/01)



1301 Gervais Street - Suite 300
Columbia, South Carolina 29201
CUSTOMER NO.



DUNS NO. 05-397-6551 FED. ID NO. 396090019
FOR SERVICE CALL BRANCH MANAGER DOC. EXP.
563-386-3024 DOUG LIERE 04/12/03

SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
03-07	14	0022781428
CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS
C	417.51	417.51
BUSINESS TYPE	CHAIN	OUTER COUNTY
05	0000	N0
LOCATION	TAX EXEMPTION NO.	
504701		

EAGLE ENGINEERING INC.

105 E LECLAIRE ROAD
P.O. BOX 64
ELDRIDGE IA 52748

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SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
2/10/03	31083		319-285-7515	16-410-2784	PW		.07	.07	.07

DEPT	SERVICE/PRODUCT	SERIAL NUMBER	REMARKS/UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS	CC	SERVICE TERM	CHANGE SERVICE TERM	CHANGE SCH. DATE	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
									CLEAN SPENT # OF CONT SK DOT			WEEKS INITIAL					
	0044000	44226478		1	390.20	27.31	417.51	0.00	21 30 2 801		12						
	000.000001		2.9000								0						

TOTAL-SERVICE/PRODUCTS				390.20	27.31	417.51	0.00	CHECK APPROPRIATE BOXES	MACHINE CONDITION & CLEANLINESS	GOOD	POOR	DECALS IN PLACE AND LEGIBLE	YES	NO	MACHINE PROPERLY GROUNDED	YES	NO
USEPA TRANSPORTER 1 ID NO.	USEPA TRANSPORTER 2 ID NO.	GENERATOR USEPA ID NO.	GENERATOR STATE ID NO.					LAMP ASSEMBLY CONDITION				FUSIBLE LINK INSTALLED			LOCAL PHONE NO. STICKER AFFIXED TO MACHINE		
TXR0000050930								EMERGENCY CLOSING OF LID UNOBSTRUCTED							SPENT SOLVENT MEETS ACCEPTANCE CRITERIA		

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)										12. CONTAINERS NO.	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER	50163055	I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES			
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA) NA1993 PG III RQ (D001) (ERG 12A) 6.7 LBS/GAL (D01A, D039, D040)										2	DM	600034	G	801	2	0 TO 220 LBS./MONTH		
																INITIALS		
																220 LBS. TO 2,200 LBS./MONTH		
																INITIALS		
																GREATER THAN 2,200 LBS./MONTH		
																INITIALS		

DESIGNATED FACILITY NAME AND ADDRESS	SAFETY-KLEEN SYSTEMS, INC.	I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.	USA EPA ID NO. IAD098027592
3025 WEST 73RD STREET	DAVENPORT, IA 52806		STATE ID NO.

PAYMENT RECEIVED SECTION PREVIOUS CREDIT CARD NO. →	CASH <input type="checkbox"/>	TOTAL RECEIVED	APPLY PAYMENT TO:	MANIFEST NO.	I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS. *This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.*	TOTAL CHARGE (FROM ABOVE)
	CHECK NUMBER		<input type="checkbox"/> TODAY'S SERVICE/SALE <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS	XXXXXX		WASTE MIN. (FROM ABOVE)
INVOICE #	AMOUNT \$	INVOICE #	AMOUNT \$	LDR MESSAGE		TOTAL DUE
				LDR NOT REQ'D		
				MANIFEST CODE	SEQ #	
				DP	145	
CREDIT CARD NO.	AMEX VISA MC	EXP. DATE	IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)		By: <u>Colby Norton</u> Customer's Authorized Representative	DO NOT WRITE IN THE AREA BELOW
CUSTOMER REFERENCE INFORMATION						0022781428 0001-8297-69 -7

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 05/02)

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SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 05/02)

BEFORE USING SAFETY-KLEEN SOLVENTS, CLEANING SOLUTIONS OR EQUIPMENT, READ ALL APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS), LABELS, AND INSTRUCTIONS. IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION, PLEASE CONTACT YOUR LOCAL SAFETY-KLEEN SERVICE CENTER OR CALL 1-800-669-5740.

PROVISIONS APPLICABLE TO SAFETY-KLEEN'S PARTS CLEANER AND PAINT GUN CLEANER SERVICES. The following three paragraphs A. 1-3, apply only where Safety-Kleen furnishes its Parts Cleaner or Paint Gun Cleaner Services to Customer:

1. Safety-Kleen agrees to collect for reclamation from Customer the used solvent supplied by Safety-Kleen to parts or paint gun cleaner machine(s). Collection of the used solvent shall be on a periodic basis as otherwise provided herein. Safety-Kleen shall reclaim the used solvent for redelivery. Safety-Kleen has the capacity and is permitted to accept, store and/or reclaim the spent solvents provided to Customer hereunder. Safety-Kleen and Customer agree that this agreement is intended to satisfy the requirements of 40 Code of Federal Regulations 262.20(e), as amended, and any state regulations which implement said provision. Customer agrees to keep this form on file for 3 years from the date of last service.
2. Customer agrees that it will not introduce any substance into the solvent or aqueous cleaning solution, including without limitation any hazardous waste or hazardous waste constituent, except to the extent such introduction is incidental to the normal use of the machine. Customer further agrees that it will not clean parts/paint guns that have been contaminated with or otherwise introduce polychlorinated biphenyls (PCBs), herbicides, pesticides, dioxins or listed hazardous wastes into the solvent or aqueous cleaning solution.
3. If Safety-Kleen provides its Nonhazardous Parts Cleaner or Paint Gun Cleaner Services to Customer, Customer represents, warrants and certifies that the solvent or aqueous solution collected by Safety-Kleen hereunder has not been mixed, combined or otherwise blended in any quantity with any material that would render the solvent or aqueous cleaning solution hazardous under applicable law, including without limitation 40 CFR Part 261. Customer further represents warrants and certifies that such solvent or aqueous cleaning solution was generated in the same process that generated the waste solvent or aqueous cleaning solution that was: (a) sampled and analyzed by Safety-Kleen to qualify the waste stream for nonhazardous treatment; or (b) in the event Customer qualifies and has elected not to have its waste solvent or aqueous cleaning solution analyzed by Safety-Kleen, analyzed or otherwise investigated by Customer to support Customer's certification that such waste stream is nonhazardous.

3. PROVISION APPLICABLE TO SAFETY-KLEEN'S PARTS CLEANER, PAINT GUN CLEANER AND IMAGING SERVICES. The following paragraph B. 1 applies only where Safety-Kleen furnishes its Parts Cleaner, Paint Gun Cleaner or Imaging Services to Customer:

1. Customer acknowledges placement of the parts cleaner unit(s), immersion cleaner unit(s), paint gun cleaner unit(s), metallic replacement compliance system(s) and/or electrolytic unit(s) set forth on the face of the Safety-Kleen Placement Form which was executed by Customer. Safety-Kleen agrees to service and maintain its equipment, and Customer agrees that all servicing, repair and maintenance of such equipment shall be performed only by Safety-Kleen. Except as provided below for on-site disposal of aqueous cleaning solutions, all Safety-Kleen equipment, solvents and aqueous cleaning solutions shall remain the property of Safety-Kleen and shall be returned to Safety-Kleen upon termination of service. Customer agrees to pay for replacement of such equipment due to loss or damage. All Customer-owned equipment shall be serviced by Safety-Kleen, but shall be maintained and repaired by and remain the property of Customer.

In the event Customer elects to dispose of aqueous cleaning solutions provided hereunder at Customer's site, title to such solutions shall pass to Customer upon such disposal. In such event, Customer (a) represents and warrants that such on-site disposal complies with all applicable laws, regulations and orders and (b) agrees to indemnify, hold harmless and defend Safety-Kleen from and against any and all claims, penalties, losses, damages, costs, expenses and other liabilities of whatever nature (including without limitation costs of defense, settlement and reasonable attorney, consultant or other professional fees and the reasonable costs of investigation, contamination and cleanup and any remedial actions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 or comparable state superfund law), which Safety-Kleen may incur, become responsible for, or suffer by reason of such disposal of aqueous cleaning solutions provided hereunder at Customer's site.

C. PROVISIONS APPLICABLE TO SAFETY-KLEEN'S FLUID RECOVERY AND IMAGING SERVICES. The following two paragraphs C. 1-2 apply only where Safety-Kleen furnishes its Fluid Recovery or Imaging Services to Customer:

1. In accordance with the Waste Handling Agreement by and between Customer and Safety-Kleen, which is incorporated herein by this reference, Customer represents and warrants to Safety-Kleen that all waste materials (the "Waste Materials") tendered by Customer to Safety-Kleen will conform to the description of such Waste Materials contained in the Material Survey that was submitted by Customer for such Waste Materials and the Prequalification Evaluation which bears the SK Survey Number associated with that particular stream of Waste Materials. Customer acknowledges and agrees that the Waste Materials shall be handled in accordance with the terms of the Waste Handling Agreement.
2. If Safety-Kleen provides its Nonhazardous Fluid Recovery Service to Customer hereunder, Customer represents, warrants and certifies that the Waste Materials collected by Safety-Kleen (a) were produced in the same process that produced the waste materials described in said Material Survey/Prequalification Evaluation and (b) have not been mixed, combined or otherwise blended in any quantity with any material which would render the Waste Materials hazardous under applicable law, including without limitation 40 CFR Part 261.

D. PROVISIONS APPLICABLE TO SAFETY-KLEEN'S PAINT WASTE SERVICE. The following four paragraphs D. 1-4 apply only where Safety-Kleen furnishes its Paint Waste Service to Customer:

1. Safety-Kleen agrees to collect, transport, recycle and/or dispose of, in accordance with all applicable laws and regulations, all paint thinners, solvents and paints ("Paint Waste") generated by Customer and tendered to Safety-Kleen. Customer represents and warrants that all Paint Waste tendered by Customer to Safety-Kleen will conform to the DOT description of such waste contained on the face of this Service and Sales Acknowledgment.
2. Customer agrees that Paint Waste that is not pumpable or has six inches or more of settled solids will be subject to additional charges.
3. All storage equipment and containers provided by Safety-Kleen shall be, and remain the property of Safety-Kleen, and, upon termination of service, shall be returned to Safety-Kleen in good repair and condition.
4. If Safety-Kleen provides its Nonhazardous Paint Waste Service to Customer hereunder, Customer represents, warrants and certifies that the Paint Waste collected by Safety-Kleen has not been mixed, combined or otherwise blended in any quantity with any material that would render the Paint Waste hazardous under applicable law, including without limitation 40 CFR Part 261. Customer further represents, warrants and certifies that such Paint Waste was produced in the same process that produced the Paint Waste that was: (a) sampled and analyzed by Safety-Kleen to qualify the waste stream for nonhazardous treatment; or (b) in the event Customer qualifies and has elected not to have its paint waste stream analyzed by Safety-Kleen, analyzed or otherwise investigated by Customer to support Customer's certification that such waste stream is nonhazardous.

E. PROVISIONS APPLICABLE TO SAFETY-KLEEN'S DRY CLEANING SERVICE. The following two paragraphs E. 1-2 apply only where Safety-Kleen furnishes its Dry Cleaning Service to Customer:

1. Safety-Kleen agrees to collect, transport, recycle and/or dispose of, in accordance with all applicable laws and regulations, all dry cleaning filter cartridges, filter powder and still residues containing perchloroethylene, petroleum naphtha or trifluorochloroethane dry cleaning solvents ("Dry Cleaning Waste") generated by Customer and tendered to Safety-Kleen in accordance with all applicable laws and regulations. Customer agrees to store its Dry Cleaning Waste in containers provided by Safety-Kleen and agrees not to mix its different streams of Dry Cleaning Waste together or with other materials. Customer represents and warrants that all Dry Cleaning Waste tendered by Customer to Safety-Kleen will conform to the DOT description of such waste contained on the face of this Service and Sales Acknowledgment.
2. All storage equipment and containers provided by Safety-Kleen shall be, and remain the property of Safety-Kleen, and, upon termination of service, shall be returned to Safety-Kleen in good repair and condition.

F. PROVISIONS APPLICABLE TO ALL SAFETY-KLEEN SERVICES. The following six paragraphs F. 1-6, apply to all Safety-Kleen Services:

1. Safety-Kleen agrees to indemnify, hold harmless and defend Customer from and against any and all claims, penalties, losses, damages, costs, expenses and other liabilities of whatever nature (including without limitation costs of defense, settlement and reasonable attorney, consultant or other professional fees and the reasonable costs of investigation, containment and cleanup and any remedial actions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 or comparable state superfund law), which Customer may incur, become responsible for, or suffer by reason of: (a) Safety-Kleen's breach of any representation, warranty, term or provision of this Agreement; or (b) the negligence, intentional misconduct or violation of law of Safety-Kleen, its employees, agents or subcontractors in the performance of this Agreement.

Customer agrees to indemnify, hold harmless and defend Safety-Kleen from and against any and all claims, penalties, losses, damages, costs, expenses and other liabilities of whatever nature (including without limitation costs of defense, settlement and reasonable attorney, consultant or other professional fees and the reasonable costs of investigation, containment and cleanup and any remedial actions under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 or comparable state superfund law), which Safety-Kleen may incur, become responsible for, or suffer by reason of: (a) Customer's breach of any representation, warranty, term or provision of this Agreement; (b) the negligence, intentional misconduct or violation of law of Customer, its employees, agents, or subcontractors in the performance of this Agreement.

In the event that any claims, penalties, losses, damages, costs, expenses and other liabilities referred to above are contributed to by the breach of contract, negligence, intentional misconduct or violation of law of both Safety-Kleen and Customer, the parties agree that all such claims, penalties, losses, damages, costs, expenses and other liabilities shall be apportioned among the parties on the basis of their comparative degrees of fault.

2. Customer certifies that all materials tendered to Safety-Kleen are properly classified, described, packaged, marked and labeled and are in proper condition for transportation in accordance with applicable regulations of the Department of Transportation.
3. Customer agrees that service hereunder will continue until Customer or Safety-Kleen terminates service. If Customer is a party to a One or Two Year Service Agreement or Exclusive Service/Guaranteed Pricing with Safety-Kleen, the parties may only terminate service as provided in such agreement. If Customer is not a party to such an agreement, either party may terminate by furnishing the other party with sixty (60) days prior written notice thereof.
4. Customer shall pay Safety-Kleen according to Safety-Kleen's standard price schedules, which schedules are subject to change by Safety-Kleen from time to time without notice; provided, however, that in the event Customer has entered into Safety-Kleen's One or Two Year Service Agreement or Guaranteed Pricing/Exclusive Service Agreement, prices will be as set forth in such agreement. Prices do not include any applicable sales tax. All amounts due Safety-Kleen are subject to an interest charge of the lesser of 1 1/2% per month (18% per annum) or the maximum rate allowed by law on any unpaid invoices that are not paid within thirty (30) days.
5. If any legal action is commenced because of an alleged dispute, breach, default, or misrepresentation, the prevailing party shall be entitled to recover attorney's fees and costs (including costs of collection) in addition to any other relief to which it may be entitled.
6. In the event the credit card issuer refuses to accept the credit card charge for this transaction set forth on the front of this document, Safety-Kleen is authorized to charge the amount of this transaction to Customer's Safety-Kleen account.

Safety-Kleen, its agents and contractors, have the capacity, and are authorized and permitted, in accordance with all applicable laws and regulations, to transport, accept, store, reclaim and/or dispose of the wastes listed on this document.

Midway Oil & Fluid Recovery Services
232 East 90th Street
Davenport, IA 52806
RECYCLING MANIFEST

308 43

MANIFEST NO. 1271

Generator's Name and Address:

*Engle Original
Siddridge, IA*

Phone #:
P.O. #:

Transporter 1 Company Name

Midway Oil & Fluid Recovery Services

Phone #:

(319) 285-5841

Designated Facility and Site Address

Midway Oil & Fluid Recovery Services
232 East 90th Street
Davenport, IA 52806

Phone #: (319) 285-5841
Fax #: (319) 285-5843

Invoice #:

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT
Midway Oil & Fluid Recovery Services AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

Date Requested	Qty	C	UC	Description / Barrel Number
				Barrel (s) Used Oil Filters
				Gallons Used Oil
				Used Car & Light Truck Tires
				Barrel (s) Used Absorbents
2-9-01	360			Gallons of Oily Water Mix
				Other -

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

Generator's Certification:

I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: Manuel Alvarez

SIGNATURE: *Manuel Alvarez*

DATE: 10/15/01

Transporter 1:

Acknowledge receipt of materials

NAME: *T. J. K...*

SIGNATURE: *T. J. K...*

DATE: 2/9/01

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME:

SIGNATURE:

DATE:

EPA# IAR 000007724

DOT# 122432

2-9-01

ICC - MC 249381

WHITE - PICK UP COPY

YELLOW - ACCOUNTING

ATTACHMENT

Page 7 of 16

PINK - GENERATORS

FLUID RECOVERY SERVICES, INC.
5790 FENNO ROAD
BETTENDORF, IA 52722

P.O. 35838

RECYCLING MANIFEST

MANIFEST 5722

Generator's Name and Address: Eagle Engineering
2701 S. 1st St.
Eldridge IA 52748

Phone #: 563 285 7515
P.O. #:

Transporter 1 Company Name
FLUID RECOVERY SERVICES, INC.

Phone#: (563) 344-0222
EPA ID #: IAR000500926

Designated Facility and Site Address
FLUID RECOVERY SERVICES, INC.
5790 FENNO ROAD
BETTENDORF, IA 52722

Phone #: (563) 344-0222
Fax #: (563) 344-9222
EPA ID #: IAR000500926

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT
FLUID RECOVERY SERVICES AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

Date Requested	Quantity	C	UC	Description/Barrel Number
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
6-12-02	500			Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION: ON SPEC BURNER FUEL. COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE FLUID RECOVERY SERVICES OFFICE LOCATED AT 5790 FENNO ROAD BETTENDORF, IA 52722. (563) 344-0222

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: Andy Cook SIGNATURE: Andy Cook DATE: 6-12-02

Transporter 1: Acknowledge receipt of materials

NAME: Jay Mark SIGNATURE: Jay Mark DATE: 6-12-02

Processing Facility: Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME: SIGNATURE: DATE:

EPA ID #: IAR000500926
WHITE - PICK UP COPY

DOT# 122432

YELLOW - ACCOUNTING ATTACHMENT 7

ICC - MC 249381

PINK - GENERATORS

FLUID RECOVERY SERVICES, INC.
5790 FENNO ROAD
BETTENDORF, IA 52722

P.O. 36005

RECYCLING MANIFEST

MANIFEST 5777

Generator's Name and Address: Eagle Engineering
2701 S. 17 St.
Eldridge IA 52748

Phone #:
P.O. #:

Transporter 1 Company Name
FLUID RECOVERY SERVICES, INC.

Phone#: (563) 344-0222
EPA ID #: IAR000500926

Designated Facility and Site Address
FLUID RECOVERY SERVICES, INC.
5790 FENNO ROAD
BETTENDORF, IA 52722

Phone #: (563) 344-0222
Fax #: (563) 344-9222
EPA ID #: IAR000500926

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COMPLETE DOCUMENTATION REMAINS ON FILE AT
FLUID RECOVERY SERVICES AND IS AVAILABLE UPON REQUEST.

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

Date Requested	Quantity	C	UC	Description/Barrel Number
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
6-20-02	600			Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION: ON SPEC BURNER FUEL. COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE FLUID RECOVERY SERVICES OFFICE LOCATED AT 5790 FENNO ROAD BETTENDORF, IA 52722. (563) 344-0222

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: SIGNATURE: DATE:

Transporter 1: Acknowledge receipt of materials

NAME: Jay Mark SIGNATURE: DATE: 6-20-02

Processing Facility: Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME: Colby Norton SIGNATURE: DATE: 6-20-02

EPA ID #: IAR000500926
WHITE - PICK UP COPY

DOT# 122432 ATTACHMENT 7 Page 3 of 10 ICC MC 249381
YELLOW - ACCOUNTING PINK - GENERATORS

FLUID RECOVERY SERVICES, INC.

5790 FENNO ROAD

BETTENDORE, IA 52722

RECYCLING MANIFEST

MANIFEST

7490

Generator's Name and Address:

Phone #:

P.O. #:

Transporter 1 Company Name

FLUID RECOVERY SERVICES, INC.

Phone#:

EPA ID #: IAR000500926

Designated Facility and Site Address

FLUID RECOVERY SERVICES, INC.

5790 FENNO ROAD

BETTENDORE, IA 52722

Phone #:

Fax #:

EPA ID #: IAR000500926

THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT
FLUID RECOVERY SERVICES AND IS AVAILABLE UPON REQUEST.

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

Date Requested	Quantity	C	UC	Description/Barrel Number
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
1-16-03	250			Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION: ON SPEC BURNER FUEL. COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE FLUID RECOVERY SERVICES OFFICE LOCATED AT 5790 FENNO ROAD BETTENDORE, IA 52722. (563) 344-0222

Company's Certification:

I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME:

SIGNATURE:

DATE:

Transporter 1:

Acknowledge receipt of materials

NAME:

SIGNATURE:

DATE:

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME:

SIGNATURE:

DATE:

EPA ID #: IAR000500926

WHITE - PICK UP COPY

DOT# 122432

ATTACHMENT 7

Page 4 of 10

ICC - MC 249381

PINK - GENERATORS

RILCO Fluid Care

1320 1st Street • Rock Island, IL 61201

RO 40171

11721

RECYCLING MANIFEST

MANIFEST

Generator's Name and Address:

Phone #:

RO. #

Transporter 1 Company Name

RILCO Fluid Care

Phone #: 309/788-1854

EPA ID # ILDO25811704

Designated Facility and Site Address

RILCO Fluid Care

1320 1st Street

Rock Island, IL 61201

Phone #: 309/788-1854

Fax #: 309/786-3946

EPA ID #: ILDO25811704

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT RILCO FLUID CARE
AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

DATE REQUESTED	QUANTITY	C	UC	DESCRIPTION
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
11-17-03	900			Gallons of Oily Water Mix / Coolant
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

ON SPEC BURNER FUEL COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE RILCO FLUID CARE OFFICE
LOCATED AT : 1320 1ST STREET, ROCK ISLAND, IL 61201 309/788-1854

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: Colby Wilson

SIGNATURE: [Signature]

DATE: 11-17-03

Transporter 1:

Acknowledge receipt of materials

NAME: Bob Thomas

SIGNATURE: [Signature]

DATE: 11-17-03

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

RG

NAME:

SIGNATURE: ATTACHMENT 7 Page 5 of 10

DATE:

EPA ID# ILDO25811704

DOT# 367096

UPM#0367096-IL

White - Pick Up Copy

Yellow - Accounting

Pink - Generators

RILCO Fluid Care

1320 1st Street • Rock Island, IL 61201

P.O. - 40171

11719

RECYCLING MANIFEST

MANIFEST

Generator's Name and Address

Eagle Engineering
3701 S. 4th St.
Eldridge, Iowa

Phone #:

(563) 285-7515

P.O. #

Transporter 1 Company Name

RILCO Fluid Care

Phone #: 309/788-1854

EPA ID # ILDO25811704

Designated Facility and Site Address

RILCO Fluid Care

1320 1st Street

Rock Island, IL 61201

Phone #: 309/788-1854

Fax #: 309/786-3946

EPA ID #: ILDO25811704

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT RILCO FLUID CARE
AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

DATE REQUESTED	QUANTITY	C	UC	DESCRIPTION
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
11-17-03	700			Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

ON SPEC BURNER FUEL COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE RILCO FLUID CARE OFFICE
LOCATED AT : 1320 1ST STREET, ROCK ISLAND, IL 61201 309/788-1854

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: *Chris Jones*

SIGNATURE: *Chris Jones*

DATE: 11/1/03

Transporter 1:

Acknowledge receipt of materials

NAME: *Bob Thomas*

SIGNATURE: *Bob Thomas*

DATE: 11-17-03

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

Des

NAME:

SIGNATURE:

ATTACHMENT 2 Page 6 of 10

DATE:

EPA ID# ILDO25811704

DOT# 367096

UPM#0367096-IL

White - Pick Up Copy

Yellow - Accounting

Pink - Generators

RILCO Fluid Care

1320 1st Street • Rock Island, IL 61201

10565

RECYCLING MANIFEST

MANIFEST

Generator's Name and Address:

Phone #:

P.O. #

Transporter 1 Company Name

RILCO Fluid Care

Phone #: 309/788-1854

EPA ID # ILDO25811704

Designated Facility and Site Address

RILCO Fluid Care

1320 1st Street

Rock Island, IL 61201

Phone #: 309/788-1854

Fax #: 309/786-3946

EPA ID #: ILDO25811704

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT RILCO FLUID CARE
AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

DATE REQUESTED	QUANTITY	C	UC	DESCRIPTION
				Barrel(s) Used Oil Filters
6-27-03	250			Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
				Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

ON SPEC BURNER FUEL COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE RILCO FLUID CARE OFFICE
LOCATED AT : 1320 1ST STREET, ROCK ISLAND, IL 61201 309/788-1854

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME:

SIGNATURE:

DATE:

Transporter 1:

Acknowledge receipt of materials

NAME:

SIGNATURE:

DATE:

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME:

SIGNATURE:

ATTACHMENT 7 Page 7 of 10 DATE:

EPA ID# ILDO25811704

DOT# 367096

UPM#0367096-IL

White - Pick Up Copy

Yellow - Accounting

Pink - Generators

FLUID RECOVERY SERVICES, INC.
5790 FENNO ROAD
BETTENDORF, IA 52722

36019

RECYCLING MANIFEST

MANIFEST N^o 4869

Generator's Name and Address:

Eagle Engineering
2701 S. 15th St
Elkhart, IN 46517

Phone #:

563-285-7515

P.O. #:

Transporter 1 Company Name

FLUID RECOVERY SERVICES, INC.

Phone#: (563) 344-0222

Designated Facility and Site Address

FLUID RECOVERY SERVICES, INC.

5790 FENNO ROAD

BETTENDORF, IA 52722

Phone #: (563) 344-0222

Fax #: (563) 344-9222

EPA ID #: IAR000500926

**THIS MANIFEST IS YOUR CERTIFICATION OF FULLY RECYCLED MATERIALS.
COMPLETE DOCUMENTATION REMAINS ON FILE AT
FLUID RECOVERY SERVICES AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

Date Requested	Quantity	C	UC	Description/Barrel Number
				Barrel(s) Used Oil Filters
				Gallons Used Oil
				Antifreeze
				Barrel(s) Used Absorbents
6-24-02	270			Gallons of Oily Water Mix
				Empty Drums

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION: ON SPEC BURNER FUEL. COPIES OF USED OIL ANALYSIS ARE AVAILABLE AT THE FLUID RECOVERY SERVICES OFFICE LOCATED AT 5790 FENNO ROAD BETTENDORF, IA 52722. (563) 344-0222

Company's Certification:

I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME:

Jim Pank

SIGNATURE:

Jim Pank

DATE:

6-24-02

Transporter 1:

Acknowledge receipt of materials

NAME:

Bob Thomas

SIGNATURE:

Bob Thomas

DATE:

6-24-02

Processing Facility:

Acknowledge receipt of materials. Assure all materials will be recycled in accordance with contracted guideline, no portion will be landfilled.

NAME:

SIGNATURE:

DATE:

EPA ID #: IAR000500926

WHITE - PICK UP COPY

DOT# 122432 ATTACHMENT 7 Page 8 of 10 MC 249381

YELLOW - ACCOUNTING

PINK - GENERATORS

RILCO Fluid Care

1320 1st Street • Rock Island, IL 61201

10435

BILL OF LADING

DOCUMENT

Company's Name and Address:

Phone #:

P.O. #

Transporter 1 Company Name

RILCO Fluid Care

Phone #: 309/788-1854

EPA ID #: ILDO25811704

Designated Facility and Site Address

RILCO Fluid Care

1320 1st Street

Rock Island, IL 61201

Phone #: 309/788-1854

Fax #: 309/786-3946

EPA ID #: ILDO25811704

**THIS BILL OF LADING IS YOUR CERTIFICATION OF PRODUCT IN PRODUCT OUT.
COMPLETE DOCUMENTATION REMAINS ON FILE AT RILCO FLUID CARE
AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

DATE	# OF DRUMS	TOTAL GALLONS	DESCRIPTION
11/16/03	2	24	105 Solvent product out
			142 Solvent product out

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: Petty Perion

SIGNATURE: Petty Perion

DATE: 9/16/03

Transporter 1:

Acknowledge receipt of product out

NAME: KEVIN HAWOOD

SIGNATURE: Kevin Hawood

DATE: 9/16/03

Processing Facility:

Acknowledge receipt of product out. Assure all materials will be reused in accordance with contracted guideline.

NAME:

SIGNATURE: ATTACHMENT 7 Page 9 of 10

DATE: 10

EPA ID# ILDO25811704

DOT# 367096

UPM#0367096-IL

White - Pick Up Copy

Yellow - Accounting

Pink - Generators

RILCO Fluid Care

1320 1st Street • Rock Island, IL 61201

10703

BILL OF LADING

DOCUMENT

Company's Name and Address: Eagle Engineering
2701 S 1st St.
Elkhridge, IA 52748

Phone #:

P.O. #

Transporter 1 Company Name

RILCO Fluid Care

Phone #: 309/788-1854

EPA ID # ILDO25811704

Designated Facility and Site Address

RILCO Fluid Care
1320 1st Street
Rock Island, IL 61201

Phone #: 309/788-1854

Fax #: 309/786-3946

EPA ID #: ILDO25811704

**THIS BILL OF LADING IS YOUR CERTIFICATION OF PRODUCT IN PRODUCT OUT.
COMPLETE DOCUMENTATION REMAINS ON FILE AT RILCO FLUID CARE
AND IS AVAILABLE UPON REQUEST.**

SHIPPING NAME, DESCRIPTION, AND IDENTIFICATION

DATE	# OF DRUMS	TOTAL GALLONS	DESCRIPTION
12-9-03	2	34	105 Solvent product out
			142 Solvent product out

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION:

Company's Certification: I certify the above described materials are not subject to Federal/State regulations for reporting proper disposal of non-hazardous materials.

NAME: Beth Perion

SIGNATURE: Beth Perion

DATE: 12-9-03

Transporter 1:

Acknowledge receipt of product out

NAME: Benjamin R. Moore

SIGNATURE: Benjamin R. Moore

DATE: 12-9-03

Processing Facility:

Acknowledge receipt of product out. Assure all materials will be reused in accordance with contracted guideline.

NAME:

SIGNATURE: ATTACHMENT 7 Page 10 of 10 DATE: 10

EPA ID# ILDO25811704

DOT# 367096

UPM#0367096-IL

White - Pick Up Copy

Yellow - Accounting

Pink - Generators

**SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAFETY-KLEEN 105 SOLVENT RECYCLED

SYNONYMS: Parts Washer Solvent; Petroleum Distillates; Petroleum Naphtha; Naphtha, Solvent; Stoddard Solvent; Mineral Spirits.

PRODUCT CODE: 6614, 6617, 1011662, 1014662

PRODUCT USE: Cleaning and degreasing metal parts.
If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

24-HOUR EMERGENCY PHONE NUMBERS

These numbers are for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

	MEDICAL:	TRANSPORTATION (SPILL):
	1-800-752-7869	1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5400 Legacy Drive
Cluster II, Building 3
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then Enter 7500

MSDS FORM NUMBER: 82310

ISSUE: September 12, 2003

ORIGINAL ISSUE: April 8, 1976

SUPERSEDES: July 8, 2003

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

SAFETY-KLEEN 105 SOLVENT RECYCLED

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL**		ACGIH TLV®		LD ^a	LC ^b
				TWA	STEL	TWA	STEL		
99-100	Distillates (petroleum), hydrotreated light	N. Av.	64742-47-8	500 ^c ppm 2800 ^d mg/m ³	N. Av.	100 ^e	N. Av.	5000 ^e mg/kg	5500 ^e mg/m ³ /4h
0-0.2 ^a	Tetrachloroethylene	Perchloroethylene; Tetrachloroethene	127-18-4	100 ppm	200 (ceiling)	25	100	2629	34.2 g/m ³ /8h

**OSHA Final PEL values (enforceable). Some States have adopted more stringent values.

N. Av. = Not Available

^aOral-Rat LD₅₀

^eBased on Stoddard Solvent

^b Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

^dInhalation-Rat LC₅₀

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear and green, mild hydrocarbon odor.

WARNING!

PHYSICAL HAZARDS

Combustible liquid and vapor.

HEALTH HAZARDS

May be harmful if inhaled.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

May be harmful if swallowed.

Contains material that may cause central nervous system and kidney damage.

Contains material which may cause birth defects.

Suspect cancer hazard. Contains material (less than 0.2% by weight) which may cause cancer. Risk of cancer depends on duration and level of exposure.

ENVIRONMENTAL HAZARDS

Toxic to fish.

SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**POTENTIAL HEALTH EFFECTS**

INHALATION (BREATHING): High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May cause irritation.

SKIN: May cause irritation. Not likely to be absorbed in harmful amounts.

INGESTION (SWALLOWING): May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidney, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated exposure may cause central nervous system and kidney damage or have mutagenic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Contains material which may cause birth defects.

CANCER INFORMATION: This product contains tetrachloroethylene which may cause cancer. Risk of cancer depends on duration and level of exposure.. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Product is toxic to fish. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-752-7869 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-752-7869 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 105°F (40°C) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.7 VOL% (minimum) **UPPER:** 5 VOL% (maximum)

AUTOIGNITION TEMPERATURE: 410°F (210°C) (minimum)

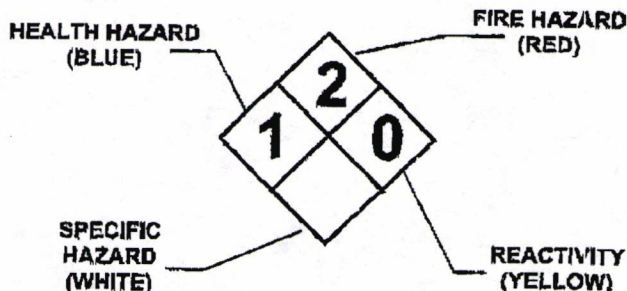
HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

EXTINGUISHING MEDIA: Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**NFPA 704****HAZARD IDENTIFICATION:**

This information is intended solely for the use by individuals trained in this system.

**FIRE FIGHTING INSTRUCTIONS:**

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**SECTION 7: HANDLING AND STORAGE**

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

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SKIN PROTECTION: Where skin contact is likely, wear laminate (Ansell Edmont Barrier®, North Silver Shield®, Safety 4 4h®) or equivalent protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear and green, mild hydrocarbon odor.

ODOR THRESHOLD: 30 ppm (based on Stoddard Solvent)

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.77 to 0.80 at 60°F (15.6°C) (water = 1)

DENSITY: 6.4 to 6.7 LB/US gal (770 to 800 g/l)

VAPOR DENSITY: 5 (air = 1) (approximately)

VAPOR PRESSURE: 0.4 mm Hg at 68°F (20°C) (approximately)
1.0 mm Hg at 100°F (37°C) (approximately)

BOILING POINT: 310°F (155°C) (initial)

FREEZING/MELTING POINT: -45°F (-43°C) (maximum)

pH: Not applicable.

EVAPORATION RATE: 0.1 (butyl acetate = 1) (based on Stoddard Solvent)

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SOLUBILITY IN WATER: Insoluble.

FLASH POINT: 105°F (40°C) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.7 VOL% (minimum) **UPPER:** 5 VOL% (maximum)

AUTOIGNITION TEMPERATURE: 410°F (210°C) (minimum)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

INCOMPATIBILITY: Avoid acids, alkalies, oxidizing agents, reducing agents, reactive metals or reactive halogens.

REACTIVITY: Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.

MUTAGENICITY: Tetrachloroethylene has demonstrated human effects of mutagenicity.

Based on best current information, the other component listed in **SECTION 2** is not a mutagen.

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CARCINOGENICITY: Tetrachloroethylene is categorized by IARC as probably carcinogenic to humans (Group 2A). Tetrachloroethylene is listed by NTP as having sufficient evidence of carcinogenicity in experimental animals, but is not known or reasonably anticipated to be a human carcinogen according to NTP. Tetrachloroethylene is categorized by ACGIH as a confirmed animal carcinogen with unknown relevance to humans (A3).

Also see **SECTION 3: CANCER INFORMATION** and **SECTION 15: CALIFORNIA**.

REPRODUCTIVE TOXICITY:

Based on best current information, there is no known reproductive toxicity associated with this product.

Also see **SECTION 15: CALIFORNIA**.

TERATOGENICITY:

Tetrachloroethylene has demonstrated animal effects of teratogenicity.

Based on best current information, the other component listed in **SECTION 2** is not a teratogen.

TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):

Based on best current information, there are no known toxicologically synergistic products associated with this product.

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICITY:**

2.9 mg/L 96 hour LC₅₀ Rainbow trout, Donaldson trout (Oncorhynchus mykiss) (based on Petroleum distillates, hydrotreated light).

Component Analysis - Ecotoxicity - Aquatic Toxicity**Perchloroethylene (127-18-4)**

Test & Species		Conditions
96 Hr LC50 rainbow trout	5.28 mg/L	Static
96 Hr LC50 fathead minnow	13.4 mg/L	flow-through
96 Hr LC50 bluegill	12.9 mg/L	Static

OCTANOL/WATER**PARTITION COEFFICIENT:**

Not available.

VOLATILE ORGANIC COMPOUNDS:

100 WT%; 6.4 to 6.7 LB/US gal; 770 to 800 g/l
As per 40 CFR Part 51.100(s).

SAFETY-KLEEN 105 SOLVENT RECYCLED
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**SECTION 13: DISPOSAL CONSIDERATIONS**

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): D001, D018, D039 and D040
Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: Shipping Name: Combustible liquid, n.o.s. (petroleum naphtha)
UN/NA #: NA1993 Hazard Class: Combustible liquid Packing Group: III

TDG: Shipping Name: PETROLEUM DISTILLATES, N.O.S.
UN/NA #: UN1268 Hazard Class: 3 Packing Group: III
Required Label(s): Flammable

EMERGENCY RESPONSE GUIDE NUMBER: 128
Reference North American Emergency Response Guidebook

SECTION 15: REGULATORY INFORMATION**USA REGULATIONS**

SARA SECTIONS 302 AND 304: Based on the ingredients listed in **SECTION 2**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SAFETY-KLEEN 105 SOLVENT RECYCLED
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311 AND 312:**

This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

**SARA SECTION
313:**

This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Material	CAS
Perchloroethylene	127-18-4

CERCLA:

Based on the ingredients listed in **SECTION 2**, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Material	CAS	RQ
Perchloroethylene	127-18-4	100 lb (45.4 kg)

TSCA:

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA:

This product may contain a detectable amount of benzene CAS 71-43-2, p-dichlorobenzene CAS 106-46-7, methylene chloride CAS 75-09-2, perchloroethylene CAS 127-18-4 and trichloroethylene CAS 79-01-6. **WARNING:** These chemicals are known to the State of California to cause cancer.

This product may contain a detectable amount of benzene CAS 71-43-2 and toluene CAS 108-88-3. **WARNING:** These chemicals are known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

WHMIS:

Class B3 - Combustible Liquid
Class D2B - Irritating to eyes and skin.
Class D2A - Contains component that may cause cancer.

SAFETY-KLEEN 105 SOLVENT RECYCLED
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ENVIRONMENTAL
PROTECTION
ACT (CEPA):**

All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION**REVISION INFORMATION:**

This MSDS has been revised in the following sections:
Section 11: Mutagenicity - Changed to human effects
Section 14: Change in transportation
Section 16: Change in label information

LABEL/OTHER INFORMATION:

This product is United States Department of Agriculture (USDA) approved, ETL classified and Factory Mutual (FM) approved.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.



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Regular Mineral Spirits (RMS)

Material Safety Data Sheet

CITGO Petroleum Corporation
1701 Golf Road, Suite 1-1101
Rolling Meadows, IL 60008-4295

MSDS No. 19015
Revision Date 07/06/1999

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

Emergency Overview

Physical State Liquid.
Color Transparent, colorless. Odor Light hydrocarbon.
WARNING! Combustible liquid; vapor may cause flash fire!
Mist or vapor may irritate the eyes, mucous membranes, and respiratory tract!
Liquid contact may cause mild to moderate eye and/or moderate to severe skin irritation and inflammation!
May be harmful if inhaled or absorbed through the skin!
Overexposures may cause central nervous system (CNS) depression and/or other target organ effects!
May be harmful or fatal if ingested!
Aspiration into the lungs can cause pulmonary edema and chemical pneumonia!
Based upon animal testing, may adversely affect reproduction!
Spills may create a slipping hazard!

Hazard Rankings

	HMIS	NFPA
Health Hazard	* 2	1
Fire Hazard	2	2
Reactivity	0	0

* = Chronic Health Hazard

Protective Equipment

Minimum Requirements
See Section 8 for Details



SECTION 1: IDENTIFICATION

Trade Name	Regular Mineral Spirits (RMS)	Technical Contact	(800) 967-7601 (8am - 4pm CT M-F)
Product Number	2015	Medical Emergency	(918) 495-4700
CAS Number	Mixture - See Section 2.	CHEMTREC Emergency	(800) 424-9300
Product Family	Blended Petroleum Hydrocarbon Solvent		
Synonyms	RMS (2015); Solvent 2015; Mineral Spirits 2015; RMS-2015; Mineral Spirits; Type 1B Mineral Spirits (meets ASTM D-235 Type 1B specifications); Stoddard Solvent; Type 1 Hydrocarbon Drycleaning Solvent (meets ASTM D-484 Type 1 specifications); White Spirits (meets Dry Cleaning Fluid Specification PD680 Type I); C9-C12 Petroleum Hydrocarbons.		

SECTION 2: COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
1) Stoddard Solvent	8052-41-3	100
2) Heavy Hydrodesulfurized Naphtha (Petroleum)	64742-82-1	45-55
3) Heavy Hydrotreated Naphtha (Petroleum)	64742-48-9	45-55
4) Nonanes	Mixture	14-19
5) n-Propylbenzene	103-65-1	0.5-1.5
6) Trimethylbenzenes	25551-13-7	3-5
7) 1,2,4-Trimethylbenzene (Pseudocumene)	95-63-6	1-4
8) Ethylmethylbenzenes (Ethyltoluenes)	25550-14-5	4-7
9) C10 Alkanes, Isoparaffins, and Cycloalkanes	Mixture	34-47
10) C11 Alkanes, Isoparaffins, and Cycloalkanes	Mixture	12-16
11) C12 Alkanes, Isoparaffins, and Cycloalkanes	Mixture	2-4

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Regular Mineral Spirits (RMS)

SECTION 3: HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin Contact. Eye Contact. Absorption. Inhalation.

Signs and Symptoms of Acute Exposure

Inhalation	Breathing high concentrations of vapor may cause respiratory irritation, euphoria, excitation or giddiness, headache, nausea, vomiting, abdominal pain, loss of appetite, fatigue, muscular weakness, staggering gait, and central nervous system (CNS) depression. CNS effects include dizziness, drowsiness, disorientation, vertigo, memory loss, visual disturbances, difficulty with breathing, convulsions, unconsciousness, paralysis, coma, and even death, depending upon the level of exposure concentration and/or duration. Vapors can reduce the oxygen content in air. Approximately 20,000 ppm (or 2 vol.%) in air is fatal to humans in 5 to 10 minutes. Sudden death from cardiac arrest (heart attack) may result from exposure to 5,000 ppm for only 5 minutes. Oxygen deprivation is possible if working in confined spaces.
Eye Contact	Animal test results on similar materials suggest that this product can cause minimal to moderate eye irritation upon short-term exposure. Symptoms include stinging, watering, redness, and swelling.
Skin Contact	Animal test results on similar materials suggest that this product can cause moderate skin irritation. Short-term contact symptoms include redness, itching, and burning of the skin. This material may also be absorbed through the skin and produce CNS depression effects (see "Inhalation" above). If the skin is damaged, absorption increases. Prolonged and/or repeated contact may cause moderate to severe dermatitis. Chronic symptoms may include drying, swelling, scaling, blistering, cracking, and severe tissue damage.
Ingestion	If swallowed, this material may irritate the mucous membranes of the mouth, throat, and esophagus. It can be readily absorbed by the stomach and intestinal tract. Symptoms include a burning sensation of the mouth and esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and delirium, as well as additional central nervous system (CNS) effects (see "Inhalation" above). Due to its light viscosity, there is a danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death. Progressive CNS depression, respiratory insufficiency, and ventricular fibrillation may also result in death.
Chronic Health Effects Summary	Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung tumor) formation and chronic lung dysfunction. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Based upon animal testing, the C9 aromatic hydrocarbon components (trimethylbenzenes and ethylmethylbenzenes) are presumed to cause fetal toxicity and/or decreased fetal and newborn weights if overexposure occurs during a woman's early gestation period (see Section 11).
Conditions Aggravated by Exposure	Personnel with pre-existing central nervous system (CNS) disease, neurological conditions, skin or blood disorders, chronic respiratory diseases, or impaired liver or kidney function, and women attempting to conceive should avoid exposure.
Target Organs	This substance is toxic to lungs, central nervous system, brain, mucous membranes, skin, eyes, and possibly, the blood, liver, kidneys, and reproductive system.
Carcinogenic Potential	This product does not contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC, or NTP.

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).							
OSHA Health Hazard Classification				OSHA Physical Hazard Classification			
Irritant	<input checked="" type="checkbox"/>	Toxic	<input type="checkbox"/>	Combustible	<input checked="" type="checkbox"/>	Explosive	<input type="checkbox"/>
Sensitizer	<input type="checkbox"/>	Highly Toxic	<input type="checkbox"/>	Flammable	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>
Corrosive	<input type="checkbox"/>	Carcinogenic	<input type="checkbox"/>	Compressed Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
						Pyrophoric	<input type="checkbox"/>
						Water-reactive	<input type="checkbox"/>
						Unstable	<input type="checkbox"/>

Regular Mineral Spirits (RMS)

SECTION 4: FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation	Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.
Eye Contact	Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
Skin Contact	Remove contaminated shoes and clothing. Flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.
Ingestion	Do not induce vomiting or give anything by mouth. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.
Notes to Physician	Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Vigorous anti-inflammatory/steroid treatment may be required at first evidence of upper airway or pulmonary edema. Administer 100 percent humidified supplemental oxygen with assisted ventilation, as required.

If ingested, this material presents a significant aspiration/chemical pneumonitis hazard. As a result, induction of emesis is not recommended. Administer an aqueous slurry of activated charcoal followed by a cathartic such as magnesium citrate or sorbitol. Also, treatment may involve careful gastric lavage if performed soon after ingestion or in patients who are comatose or at risk of convulsing. Protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position. Obtain chest X-ray and liver function tests. Monitor for cardiac function, respiratory distress and arterial blood gases in severe exposure cases.

SECTION 5: FIRE FIGHTING MEASURES

NFPA Flammability Classification	OSHA/NFPA Class-II Combustible Liquid. Highly combustible!		
Flash Point/Method	CLOSED CUP: 41° to 43°C (105° to 110°F). (Tagliabue (ASTM D-56))		
Lower Flammable Limit	AP 0.5 %	Upper Flammable Limit	AP 6.0 %
Auto-Ignition Temp.	AP 230°C (446°F)		
Hazardous Combustion Products	Burning or excessive heating may produce smoke, carbon monoxide, carbon dioxide, and possibly other harmful gases/vapors.		
Special Properties	Combustible Liquid! This material releases vapors at or approaching its flash point temperature. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. May create vapor/air explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.		
Extinguishing Media	SMALL FIRE: Use dry chemicals, carbon dioxide (CO ₂), foam, water fog, or inert gas (nitrogen). LARGE FIRE: Use foam, water fog, or waterspray. Water fog and spray are effective in cooling containers and adjacent structures but might cause frothing and/or may not achieve extinguishment. A water jet may be used to cool the vessel's external walls to prevent pressure build-up, autoignition, or explosion. NEVER use a water jet directly on the fire because it may spread the fire to a larger area.		

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Regular Mineral Spirits (RMS)

Fire Fighting Protective Clothing

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from venting safety devices or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid(s) enter sewers or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Combustible Liquid! Release causes an immediate fire or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor-suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop the leak if it can be done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas. Prevent its entry into waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

For large spills, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; but, it may not prevent ignition in closed spaces. This material will float on water and its run-off may create an explosion or fire hazard. Verify that responders are properly HAZWOPER-trained and wearing appropriate respiratory equipment and fire-resistant protective clothing during cleanup operations. In an urban area, cleanup spill as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire/explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Bond and ground all equipment before transferring this material from one container to another. Do not contact with oxidizable materials. Do not breathe vapor. Use only with adequate ventilation/personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food, chewing, or smoking materials. Do not take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure limits. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.



Storage

Store and transport in accordance with all applicable laws. Keep containers tightly closed and store in a cool, dry, well-ventilated place, plainly labeled, and out of closed vehicles. Keep away from all ignition sources! Ground all equipment containing this material. Containers should be able to withstand pressures expected from warming and cooling in storage. This combustible liquid should be stored in a separate safety cabinet or room. All electrical equipment in areas where this material is stored or handled should be installed in accordance with applicable requirements of the N.F.P.A.'s National Electrical Code (NEC).

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Regular Mineral Spirits (RMS)

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and/or mists below the pertinent exposure limits (see below). All electrical equipment should comply with the NFPA NEC Standards. Ensure that an emergency eye wash station and safety shower are near the work-station location.
Personal Protective Equipment	Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.
	 
Eye Protection	Safety glasses with side shields are recommended as a minimum protection. During transfer operations or when there is a likelihood of misting, splashing, or spraying, chemical goggles and face shield should be worn. Suitable eye wash water should be readily available.
Hand Protection	Avoid skin contact and use gloves (disposable PVC, neoprene, nitrile, vinyl, or PVC/NBR). Before eating, drinking, smoking, use of toilet facilities, or leaving work, wash hands with plenty of mild soap and water. DO NOT use gasoline, kerosene, other solvents, or harsh abrasive skin cleaners.
Body Protection	Avoid skin contact. It is recommended that fire-retardant garments (e.g. Nomex™) be worn while working with flammable and combustible liquids. If splashing or spraying is expected, chemical-resistant protective clothing (Tyvek®, nitrile, or neoprene) should be worn. This might include long-sleeves, apron, slicker suit, boots, and additional facial protection. If general contact occurs, IMMEDIATELY remove soaked clothing and take a shower. Contaminated leather goods should be removed promptly and discarded.
Respiratory Protection	For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA). For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirator use should follow OSHA requirements (29 CFR 1910.134) or equivalent standard (e.g. ANSI Z88.2).
General Comments	Warning! Odor is an inadequate warning for hazardous conditions. This product is sometimes used as a dry-cleaning solvent. Retained solvent present in absorbent clothing (e.g., shoulder pads, leather belts or straps, etc.) which remains in contact with the skin for prolonged periods has caused severe skin irritation including redness, swelling, burns, and severe tissue damage. Care must be taken to ensure that garments are completely dry before being worn.

Occupational Exposure Guidelines

Substance	Applicable Workplace Exposure Levels
1) Stoddard Solvent	TWA: 100 (ppm) from ACGIH (TLV) [1999] TWA: 500 (ppm) from OSHA (PEL) [1989]
2) Nonane, all isomers	TWA: 200 (ppm) from ACGIH (TLV) [1999] TWA: 200 (ppm) from OSHA (PEL) [1989]
3) Trimethylbenzene (mixed isomers)	TWA: 25 (ppm) from ACGIH (TLV) [1999] TWA: 25 (ppm) from OSHA (PEL) [1989]

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.	Color	Transparent, colorless.	Odor	Light hydrocarbon.
Specific Gravity	0.78-0.79 (Water = 1)	pH	Not applicable.	Vapor Density	4.7 (Air = 1)
Boiling Point/Range	149° to 204°C (300° to 400°F) (ASTM D-2887)	Melting/Freezing Point			-65° to -25°C (-85° to -13°F)
Vapor Pressure	2.1 mm Hg at 20°C (68°F).	Viscosity (cSt @ 40°C)			LT 20
Solubility in Water	Slightly soluble in cold water (LT 0.01%).	Volatile Characteristics			Volatile Organic Compounds (VOCs) Content = 100%; 784 gm/L.

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No. 2824 P. 2

ROCK ISLAND LUBRICANTS

13. 2004 1:40PM

Regular Mineral Spirits (RMS)

Ethylmethylbenzenes are primary skin irritants and overexposures might cause liver and/or kidney damage or increase blood cholinesterase levels. Inhalation of these and other C9 aromatic hydrocarbons by pregnant mice and rats during gestational days 6 through 15 resulted in decreased fetal and newborn weights.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecological effects testing has not been conducted on this material. If spilled, this naphtha, its storage tank water bottoms and sludge, and any contaminated soil or water may be hazardous to human, animal and aquatic life. Volatile aromatic hydrocarbon components (n-propylbenzene and trimethylbenzenes) of this product may be released and possibly contribute to the creation of atmospheric smog.

Using Rainbow Trout (*Oncorhynchus mykiss*) and Dungeness Crab (*Cancer magister*), similar naphthas showed a 96-hour TLM (Median Toxic Limit) from 5 ppm to 20 ppm in ambient saltwater. Also, 24-hour and 96-hour TLMs produced results from 60 ppm to 200 ppm when using Bluegill Sunfish (*Lepomis macrochirus*), Goldfish (*Carassius auratus*), Guppy (*Lebistes reticulatus*) and juvenile American Shad (*Squalus cephalus*) in fresh water. Based upon actual spill incident investigations, similar naphthas have been shown to bioaccumulate in tissues of various fish from a 1 ppm to 10 ppm levels.

Environmental Fate

This naphtha mixture is potentially toxic to freshwater and saltwater ecosystems. It will normally float on water with its lighter components evaporating rapidly. In stagnant or slow-flowing waterways, a naphtha hydrocarbon layer can cover a large surface area. As a result, this covering layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway might be enough to cause a fish kill or create an anaerobic environment. This coating action can also be harmful or fatal to plankton, algae, aquatic life, and water birds. Additionally, potable water and boiler feed water systems should NEVER be allowed more than 5 ppm contamination from this material.

For additional ecological information concerning components of this product, users should refer to the Hazardous Substances Data Bank® and the Oil and Hazardous Materials/Technical Assistance Data System (OHMTADS) maintained by the U.S. National Library of Medicine. (See Section 2 for components.)

SECTION 13: DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Maximize material recovery for reuse or recycling. If spilled material is introduced into a wastewater treatment system, chemical and biological oxygen demand (COD and BOD) will likely increase. This material is biodegradable if gradually exposed to microorganisms, preferably in an aerobic environment. In sewage-seeded wastewater, at or below concentrations of 0.2 vol.% of this naphtha, there is little or no effect on bio-oxidation and/or digestion. However, at 1 vol.%, it doubles the required digestion period. Higher concentrations interfere with floc formation and sludge settling and also plug filters or exchange beds. Vapor emissions from a bio-oxidation process contaminated by this material might prove to be a potential health hazard.

Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitability (D001) characteristics. In addition, conditions of use may cause this material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR Parts 260 through 271). State and/or local regulations might be even more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

SECTION 14: TRANSPORT INFORMATION

DOT Status

This material is regulated by the U.S. Department of Transportation (DOT).

Regular Mineral Spirits (RMS)

Additional Properties Alkane, Isoparaffin, and Cycloalkane Hydrocarbons Content = 85 to 92 Wt.% (ASTM D-1319);
C8-C11 Aromatic Hydrocarbon Content = 8 to 15 Wt.% (ASTM D-1319);
Average Density at 60°F = 6.53 lbs./gal. (ASTM D-2161);
Aniline Cloud Point Temperature = 130°F (54°C) (ASTM D-611);
Kauri-Butanol (KB) Value = 40 to 45 (ASTM D-1133);
Dry Point Temperature = 383°F (195°C) (ASTM D-86);
Evaporation Rate = 0.18 when n-Butyl acetate = 1.0;
Heat Value = 19,668 Btu.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable.	Hazardous Polymerization	Not expected to occur.
Conditions to Avoid	Keep away from extreme heat, strong acids, and strong oxidizing conditions.		
Materials Incompatibility	Strong acids, alkalies, and oxidizers such as liquid chlorine, hydrogen peroxide, and oxygen.		
Hazardous Decomposition Products	No substances are readily identified from composition; but, no degradation data is available.		

SECTION 11: TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Stoddard Solvent or Mineral Spirits:

ORAL (LD50):	Acute: GT 34,600 mg/kg [Rat].
GAS (LC50):	Acute: GT 21,400 mg/m ³ for 4 hours [Rat].
DERMAL (LD50):	Acute: 15,400 mg/kg [Rabbit].

n-Nonane:

GAS (LC50):	Acute: 3,200 ppm for 4 hours [Rat].
INTRAVENOUS (LD50):	Acute: 218 mg/kg [Mouse].

n-Propylbenzene:

ORAL (LD50):	Acute: 6,040 mg/kg [Rat].
GAS (LC50):	Acute: 65,000 ppm for 2 hours [Rat].

Trimethylbenzenes:

ORAL (LD50):	Acute: 8,970 mg/kg [Rat].
--------------	---------------------------

1,2,4-Trimethylbenzene:

ORAL (LD50):	Acute: 5,000 mg/kg [Rat].
GAS (LC50):	Acute: 18,000 mg/m ³ for 4 hours [Rat].

Ethylmethylbenzenes (Ethyltoluenes):

GAS (LC50):	Acute: 50,000 mg/m ³ for 2 hours [Cat].
GAS (LC50):	Acute: 54,000 mg/m ³ for 4 hours [Mouse].

Stoddard Solvent or Mineral Spirits is a mild to moderate eye irritant and a skin and respiratory tract irritant. Human volunteers exposed to an airborne concentration of 400 ppm experienced no ill effects. Saturated vapors in air (or AP 8,200 mg/m³) are below the LC50 level in rats.

Based upon laboratory animal studies, repeated direct application of Stoddard Solvent to the skin can produce defatting dermatitis, kidney damage, and changes in blood-forming capacity. Rats developed kidney damage and elevated blood urea nitrogen levels when exposed to a concentration of 1.9 mg/L for 65 days. The kidney damage in rats appeared to involve both the tubules and glomeruli, but only occurred in males; so these effects may not be pertinent to humans. Male rats exposed to airborne concentrations of 100, 150, and 1,500 ppm for 6 hours per day, 5 days per week for 90 days did not develop any functional or histological signs of neurotoxicity. Stoddard Solvent and Mineral Spirits were not mutagenic in the Salmonella/microsome (Ames) assay, the in-vivo mouse bone marrow cell chromosome aberrations assay, and the in-vitro rat sister chromatid exchanges assay.

Rats inhaling n-nonane at an airborne concentration of 1,500 ppm for 7 days displayed mild tremors and loss of coordination. Inhalation of 1,600 ppm for 6 hours per day for 90 days showed animal weight loss or decreased weight gain and changes in the structure of their salivary glands. And, liver damage and an altered response to drugs were seen in rats given n-nonane for 2 to 7 days.

Trimethylbenzenes are primary skin irritants and may cause asthmatic bronchitis and/or anemia. Based upon animal reproductive/developmental studies, trimethylbenzenes may also cause fetal toxicity.

Regular Mineral Spirits (RMS)

Proper Shipping Name

Petroleum distillates, n.o.s. (Naphtha Solvent) or (Nonanes, Ethylmethylbenzenes)

This product has a flash point temperature of between 100° and 141°F (38° to 60°C). For bulk shipments, it is classified as a DOT "Flammable Liquid". However, according to 49 CFR 173.120(b)(2) and 173.150(f)(1), this product may be reclassified as a "Combustible Liquid" and exempted from certain transportation-related requirements, such as labeling, when shipped in non-bulk "limited-quantity" containers of less than 119 gallons capacity. According to 49 CFR 173.150(f)(2) and (3), this provision does not apply to "limited-quantities" offered for or transported via vessel or aircraft or products which are defined as DOT "Marine Pollutants". It is recommended that "Flammable Liquid" products which are reclassified be so identified on the bill-of-lading as "Combustible liquid, n.o.s. (Solvent Naphtha) or (Petroleum Distillates) or (Nonanes, Ethylmethylbenzenes) with identification number "NA1993".

Hazard Class

Class 3: Flammable liquid.

Packing Group(s)

PG III

UN/NA ID

UN1268

Reportable Quantity

The Reportable Quantity (RQ) substance components in this product which might require DOT HAZMAT bill-of-lading display are Cumene and Xylenes.

Placards

Emergency Response Guide No. 128



HAZMAT STCC No.

49 102 56

MARPOL III Status

Component analysis might define this product as a DOT "Marine Pollutant" per 49 CFR 171.8 (Trimethylbenzenes, Ethylmethylbenzenes).

SECTION 15: REGULATORY INFORMATION

TSCA Inventory

This product and/or its components are listed on the Toxic Substance Control Act (TSCA) inventory.

SARA 302/304

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 311/312

The Superfund Amendments and Reauthorization Act of 1989 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:

Fire Hazard, Acute (Immediate) Health Hazard, and Chronic (Delayed) Health Hazard.

SARA 313

This product contains the following component in concentrations at or above de minimis levels and which is listed as toxic chemical in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: 1,2,4-Trimethylbenzene (Pseudocumene) [CAS No. 95-63-6] concentration: 1 to 4%.

CERCLA

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product subject to this statute are:

Xylenes (RQ = 100 lbs. [45.36 kg]) concentration: 0.001 to 0.36%

Ethylbenzene (RQ = 1000 lbs. [453.6 kg]) concentration: 0 to 0.072%

Cumene (RQ = 5000 lbs. [2268 kg]) concentration: 0.43 to 0.72%.

CWA

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California Proposition 65

This material is not known to contain any chemical substances which are known to the State of California to cause cancer, birth defects, or other reproductive harm, and therefore, it is not subject to requirements of California Health & Safety Code Section 25249.5.

Regular Mineral Spirits (RMS)

New Jersey Right-to-Know Label

For New Jersey labeling refer to components listed in Section 2.

Additional Regulatory Remarks

Under the Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains "Petroleum Distillates" which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: Contains Petroleum Distillates! May be harmful or fatal if swallowed! Keep Out of Reach of Children!

Under Section 12(b) of TSCA: Because it contains detectable amounts of n-Propylbenzene [CAS No. 103-65-1], Cumene (Isopropylbenzene) [CAS No. 98-82-8], and other C9 Aromatic Hydrocarbons, this product might be subject to US EPA's one-time only per country export notification requirements.

SECTION 16: OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number 2.3

Revision Date 07/06/1999

Print Date Printed on 09/13/1999.

ABBREVIATIONS

AP = Approximately Established EQ = Equal GT = Greater Than LT = Less Than NA = Not Applicable ND = No Data NE = Not

ACGIH = American Conference of Governmental Industrial Hygienists

AIHA = American Industrial Hygiene Association

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

NPCA = National Paint and Coating Manufacturers Association

HMIS = Hazardous Materials Information System

NFPA = National Fire Protection Association

EPA = Environmental Protection Agency

DISCLAIMER OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

***** END OF MSDS *****

ATTACHMENT 9 Page 9 of 9

EAGLE ENGINEERING INC.
2701 SOUTH 1ST STREET
ELDRIDGE, IOWA 52748
563-285-7515 PHONE
563-285-9520 FAX



EAGLE ENGINEERING INC.

Fax

To: *Glenn Cherry*

From: BETTY PERION PURCHASING AGENT

Attn:

Fax: *913-551-9155*

Pages: *5*

Phone: *913-551-7155*

Date: *4-15-04*

Re:

CC:

*Glenn - Riles has asked me to fax you this.
If you notice on their bill of lading - It says*

☐ Urgent ☐ For Review ☐ Please Comment ☒ Please Reply ☐ Please Recycle

• Comments: *product out - Not waste. and the attached
information explains.*

*If I can be of any further help. let
me know.*

Thank You!!

Thanks!

Betty Perion

Betty Perion

Purchasing Agent

IMPORTANT

*Would you like to **TOTALLY** eliminate your hazardous waste caused by the removal of parts washer solvent? No more manifesting! No more reporting! Now, with RILCO Fluid Care(RFC).....*

PRODUCT – IN & PRODUCT OUT

.....Program, you can do exactly that!

This program services you with a RFC solvent that best meets your specific requirements, with the RFC solvents product line being NEW (non-recycled product) and high quality in mineral spirits.

(PRODUCT-IN) RFC solvents are removed not as a waste but as a product. (PRODUCT-OUT) RFC sells our used solvent as a product to end users, which is then utilized as a product in the manufacturing process, reducing their purchasing of new material. This is in accordance with the "Code of Federal Regulations", Part 40, Section 261.2, Paragraph (e) sub-paragraph (I) "Used or reused as ingredients in an industrial process to make a product, provided the material are not being reclaimed."

Call and let this unique RFC program benefit you!

(309) 788-1854

**RILCO Fluid Care
PARTS WASHER SERVICE**

PRODUCT IN - PRODUCT OUT PROGRAM

RILCO Fluid Care(RFC) provides parts washer services for manufacturing and the vehicle maintenance and repair industries. **Our facility is located at 1320 1st Street Rock Island, IL 61201**

We service our parts washers each time using fresh, new solvents. ***Never recycled.*** That means you'll get the full strength you depend on for getting quick, clean results. ***No residues!***

Our competitors use recycled solvents. There are ongoing lawsuits concerning the harmful characteristics of solvents that have multiple recycled materials including chlorinated compounds.

That doesn't mean RFC isn't concerned about the environment. Just the opposite is true. We have brought our customers the best method of product reuse for the solvents generated from the parts washer operations; Product In - Product Out.

RILCO Fluid Care is pleased to announce the Product In - Product Out program for the reuse of parts washer solvents. This innovative approach offers significant waste minimization opportunities to our clients while providing beneficial reuse of a product.

The **Product In - Product Out Program** is a use / reuse program that offers a second use, or reuse opportunity that eliminates the used material from regulation as a waste by substituting this spent solvent for virgin solvent in a manufacturing process. The used solvent becomes a manufacturing ingredient "as is" without processing or incineration.

RFC maintains strict control over the materials that are managed in the **Product In - Product Out Program**. We do a quality assurance analysis on the used solvent feed stock. Updated analyses are performed on a routine basis to confirm that the end use chemical specifications are being met.

Any solvents containing hazardous wastes, such as chlorinated materials, are unsuitable for the program.

The product In - Product Out Program is based upon a legitimate material reuse exemption provided by federal RCRA hazardous waste regulations (40CFR261.2(e)) and complies with the applicable USEPA guidelines and policy regarding the reuse of used materials. Records are maintained at FRS to document the legitimate reuse of the used solvents in the reuse program.

Each shipment is documented by a shipping bill of lading. *Exclusion from regulation as a waste exempts the reuse products from waste manifesting requirements. Eliminating the disposal of used solvents can be included as part of the waste reduction program in your company's waste minimization plan.*

As required by federal regulation for chemical reuse activities, RFC maintains a "**Material Determination and Exemption Documentation**" policy statement at the facility located in Rock Island, IL.

Getting into the reuse program required RFC to overcome many hurdles in satisfying the chemical end user requirements for quality control. We have spent time, money, and effort to gain this benefit for our customers.

Once the materials are bulked and sampled at our transfer facility, the used solvent is transported to a chemical manufacturer which bulks and prepares the shipment for the end user. The end user, a Fortune 500 company, uses the materials "as is" in the production of building material compounds.

We trust you will keep this information confidential and for your in-house only.

RILCO Fluid Care appreciates the opportunity to be part of your team of suppliers. We strive to make improvements in our services to better serve the needs of our customers.

The **Product In – Product Out** program is another way of showing our continuing effort to provide innovative services to our customers while providing benefits from the value of used products.

In addition to our parts washer services, RFC collects and processes used oils, oily waters, and antifreeze. Our environmentally conscience staff can also assist in the disposal of industrial wastes. All TDSF facilities are audited by RFC for regulatory compliance and have USEPA permits.

RFC is a USEPA registered used oil processing facility and hazardous waste transporter. *USEPA Used Oil Processor / Marketer facility and hazardous waste transporter identification number is ILD025811704.*

Spill Prevention Control and Countermeasure Plans are available for review.

Customer service is our #1 goal. RFC provides quality service, technical expertise, and value added pricing. Our customers come variety of industries and each one depends on timely, efficient service. We pride ourselves with commitment to each of our customers. *For additional information, call the RILCO Fluid Care office at (309)788-1854.*

Reuse/Waste Minimization Program Procedural Outline

- Step 1** RILCO Fluid Care always delivers **100% virgin solvent** to your location. Our solvent is free of contaminants (i.e. chlorinated solvents, PCB's, etc.) that are often present in recycled solvent.
- Step 2** A representative composite sample of the used solvent is submitted to a certified and approved commercial laboratory for analysis to determine if the product meets the end users specifications and further ensure that there is not contamination with hazardous waste.
- Step 3** The laboratory data is evaluated for the Reuse Program. In rare cases, the service frequency may need adjustments to ensure that the used material is acceptable for the reuse program.
- Step 4** All appropriate paperwork is reviewed and signed by you, the client, and RILCO Fluid Care as the transporter in accordance with the Department of Transportation (DOT) regulations and all applicable state and local requirements.
- Step 5** The product is collected in licensed trucks by experienced RILCO Fluid Care representatives. Each representative receives **ongoing hazardous material driver training**. The shipment document used to record transactions Regarding Reuse product is a bill of lading, not a hazardous waste manifest.
- Step 6** The product is then transported directly to the closest RILCO Fluid Care branch location.
- Step 7** The product is shipped from the branch locations to one of RILCO Fluid Care regional bulking facilities. The product is simply bulked into either trailers or cars. There is no reclamation or treatment associated with the bulking process.
- Step 8** Each bulk shipment is analyzed to determine if it meets the end users specifications and further ensure that there is not contamination with hazardous waste.
- Step 9** Clients that alter their process or add significantly to their parts washer operations may require re-qualification into the Reuse Program.
- Step 10** To facilitate waste minimization reporting, RILCO Fluid Care maintains detailed records of the amount of product each customer ships for reuse.

Blaser Swissslube Inc.

31 Hatfield Lane, Goshen, New York 10924 • Tel. (914) 294-3200 • Fax (914) 294-3102

Blaser.
SWISSSLUBE**MSDS Blasocut 2000 MD Art. 25008**

BLA-5 2

PRODUCT IDENTIFICATION

MANUFACTURER: Blaser Swissslube, Inc.
ADDRESS: 31 Hatfield Lane
 Goshen, NY 10924

EMERGENCY PHONE NUMBER: (914) 294-3200

PRODUCT NAME: Blasocut 2000 MD Art. No. 25008
PRODUCT TYPE: Water-miscible mineral oil based, metalworking fluid

PREPARED BY: OH&S Coordinator
DATE OF ISSUE: June 1, 1998
SUPERCEDES: Rev 12 08/12/96

HMIS	
Health	0
Fire	1
Reactivity	0
Contact	0

PRODUCT COMPOSITION

Blasocut is a tested, non controlled (as defined by WHMIS), non-hazardous mixture (as defined by 29 CFR 1919.1200) of:

INGREDIENT:	%	CAS NO:
Severely Hydrotreated Mineral oil	50-70	64742-52-5
Emulsifiers	25-35	68608-26-4
		61790-44-1
Polar Additives	2-5	61791-12-6
		8016-28-2
Chlorinated paraffins (C ₁₆ -20, less than 50% Chlorine)	5-10	61788-66-7
Corrosion and Fungi inhibitors	0.5-1	61788-76-9
Odorant and Dye (technical grade of food dye)	<0.1	
Stabilizers	<2	
Na-benzoate; 2,3-pentandiol, 2-methyl; 2-propanol, 1-phenoxy; Ca-acetate; alpha-Tocopherol; citric acid; tartaric acid; ascorbic acid; ascorbylpalmitate; oleylsarcosine; 1-hydroxyethyl-2-oleyl-imidazoline and glycerin		

Blasocut 2000 does not contain as an ingredient phenols, nitrites, formaldehyde, or formaldehyde releasing substances, heavy metals (ie: Lead, Mercury, etc.) active sulfur, arsenic, PCB, PCT, TCDD or other dioxin related substances. Benzo(a)pyrene content less than 10 PPM (GC-MS method).

All ingredients of Blasocut 2000 are listed on the TSCA Chemical Substances Inventory and the Canadian DSL. Blasocut 2000 does not contain nor is it manufactured with Ozone Depleting Substances as defined in the Federal Clean Air Act Amendments of 1990, sections 602 and 611.

EMERGENCY and FIRST AID PROCEDURES

Skin Contact: Wash with plenty of soap and fresh water (good personal hygiene practices are sufficient). Remove any contaminated clothing and launder before reuse.

Eye contact: Rinse with plenty of fresh water for 20 minutes. Consult Physician if necessary.

Inhalation: Remove to fresh air.

Ingestion: DO NOT INDUCE VOMITING. PULMONARY ASPIRATION HAZARD, consult a Physician without delay.
 If involuntary vomiting occurs, ensure that mouth is below hip level!

Blaser Swisslube Inc.

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Blaser.
SWISSLUBE**FIRE and EXPLOSION HAZARD DATA**

Flash Point: (COC): 334°F

Auto Ignition Temperature: 572°F

Explosion Limits: Not applicable

Hazardous Combustion Products: Oxides of carbon, nitrogen and traces of oxides of sulfur and chlorine.

Products formed under ABNORMAL CONDITIONS: Thermal decomposition of the concentrate above 176°F may produce trace amounts of HCl.

Special Fire Fighting Procedures: Wear self contained breathing apparatus when fighting fires in confined spaces. Cool exposed containers with water mist.

Fire Fighting Media: CO₂, dry chemical, foam

Unusual Fire or Explosion Hazards: None

NFPA

**PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to Be Taken in Case Material is Released or Spilled: As with any other industrial lubricating oil, use oil-binding agents. Spills or leaks may cause slippery conditions.

Waste Disposal Methods: Split emulsion with absorbing agents, salts or ultra-filtration. Dispose according to all applicable Federal, State and Local regulations.

Precautions to Be Taken in Handling/Storing: Avoid direct solar irradiation of concentrate containers.

Other Precautions: Do not store with strong oxidizers.

CONTROL MEASURES

Respiratory Protection: Not generally required.

Ventilation: Normally general ventilation is sufficient.

Protective Gloves: Not required.

Eye Protection: Industrial Safety Glasses are recommended.

Other Protective Equipment or Clothing: None required.

Work/Hygienic Practices: Thorough personal hygiene and clean working practices are sufficient.

CHEMICAL AND PHYSICAL PROPERTIES OF THE COMPLETE PRODUCT

Boiling point: 572°F

Solubility in water: yes

Vapor pressure: Not volatile

Volatiles, %: nil

Pour point: -22°F

pH: 8.7-8.9

Specific Gravity: 0.951 g/cm³Viscosity: 133 mm²/S @ 68° F39mm²/S @ 104° F

Appearance and odor: Green liquid/ pleasant odor (almonds)

Blaser Swissslube Inc.

31 Hatfield Lane, Goshen, New York 10924 • Tel. (914) 294-3200 • Fax (914) 294-3102

Blaser.
SWISSLUBE**REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Avoid direct solar irradiation of concentrate containers. Good and safe housekeeping procedures suggests that all combustible materials be stored away from strong oxidizers.

Incompatibility (Materials to Avoid): Concentrate: Strong oxidizers End use dilutions: Magnesium

Hazardous Decomposition or Byproducts: Thermal decomposition (concentrate) above 176°F: Trace amounts of HCl

Hazardous Polymerization or Byproducts: Will not occur.

HEALTH HAZARD DATA

Blasocut 2000 MD has been extensively tested as a whole for its' health hazards:

LD50 of concentrate: >15 mg/kg

Skin Sensitizing: Negative

Eye Irritation: Negative

Ames Test: Negative

Routes of Entry: Inhalation?
UnlikelySkin?
NoIngestion?
Accidental only

Health Hazards (Acute/Chronic): None/None

Carcinogenicity: None

OSHA Regulated: No

WHMIS Regulated: No

Signs and Symptoms of Exposure: None established.

Medical Conditions Generally Aggravated by Exposure: Not established.

Exposure Limits: OSHA regulation 29 CFR 1910.1000 establishes an exposure limit for Oil Mist in Air. The applicability of this exposure limit to emulsions has not been established.

OSHA 29 CFR 1910.1000 for Oil Mist in Air:

5mg/m³

ACGIH:TLV for Oil Mist in Air:

5mg/m³**ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION**

NFPA STORAGE: III B

SARA TITLE III INFORMATION:

IMMEDIATE HEALTH (Acute): No

REACTIVE HAZARD: No

FIRE HAZARD: No

DELAYED HEALTH (Chronic): No

SUDDEN PRESSURE RELEASE: No

Blasocut 2000 does not contain any ingredients listed on the SARA Title III, Section 313 List or CERCLA List of Chemicals. Blasocut 2000, as sold, does not meet the criteria of a hazardous waste as defined under 40CFR 261. In that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. It is the end user's responsibility to determine the regulatory status of the waste at the time of disposal.

(066861-05711 -TO135262-1743)

DATE OF ISSUE
03/03/95SUPERSEDES
12/18/89

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A		TRADE NAME & SYNONYMS LONG-LIFE 20/20	
CHEMICAL FAMILY AMINE SOAP		FORMULA X<--MIXTURE	
MANUFACTURERS NAME: CERTIFIED LABS, DIV. OF NCH CORP.			
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015			
PREPARED BY: G ZIMMERMAN/CHEMIST	PRODUCT CODE NUMBER 1743	EMERGENCY TELEPHONE NUMBER 214-438-1381	

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS) :			
TRIETHANOLAMINE			
HAZARD-->IRRITANT	TLV--->5MG/M3 1.	PEL-->NOT EST. 2	
STEL(TWA)* ->N/E	CAS#-->102-71-6		
CHEMICAL NAME (INGREDIENTS) :			
DIETHANOLAMINE			
HAZARD-->IRRITANT	TLV--->3PPM 1.	PEL-->3PPM 2.	
STEL(TWA)* ->N/E	CAS#-->111-42-2		

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363 -5092P

LONG-LIFE 20/20

(CONTINUED)

SECTION IIA - NON-HAZARDOUS INGREDIENTS

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SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	212	SPEC GRAVITY (H2O=1)	1.060
VAPOR PRESSURE (MM HG.)	18	COLOR	YELLOW/GREEN
VAPOR DENSITY (AIR=1)	0.6	ODOR	SWEET
PH @ 100%	8.5-9.5	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	50	EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NON-FLAM	N/A	N/A	N/A
EXTINGUISHING MEDIA "ALCOHOL"			
X<--FOAM	X<--CO2	X<--CHEMICAL	X<--SPRAY
			X<--OTHER

SPECIAL FIRE FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.UNUSUAL FIRE & EXPLOSION HAZARDS
SPILLED MATERIAL MAY BE SLIPPERY.
DO NOT SPRAY A DIRECT STREAM OF WATER INTO PRODUCT AS FROTHING AND SPATTERING MAY OCCUR.NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME):
2<--HEALTH 0<--FLAMMABILITY 0<--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION I.I.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)
 <>EYE CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. SWELLING OF THE CONJUNCTIVA AND CORNEAL INJURY ARE POSSIBLE.<>
 ~ SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. BURNS, ALLERGIC SKIN REACTIONS AND SENSITIZATION ARE POSSIBLE.
 INHALATION OF VAPOR OR MIST MAY CAUSE IRRITATION OF NOSE, THROAT, OR CHEST. COUGHING, SNEEZING
 ~ INGESTION MAY CAUSE IRRITATION OR PAIN IN DIGESTIVE TRACT, VOMITING, NAUSEA, DIARRHEA, DROWSINESS, FAINTNESS, DIZZINESS, WEAKNESS, COLLAPSE, COMA.

- CHRONIC - (LONG TERM EXPOSURE)
 ~ REPEATED INGESTION MAY CAUSE LIVER OR KIDNEY DAMAGE
 ~ REPEATED INHALATION OF VAPOR OR MIST MAY CAUSE LIVER OR KIDNEY DAMAGE
 * TARGET ORGANS: LIVER, KIDNEYS
 # MEDICAL CONDITIONS AGGRAVATED: PRE-EXISTING SKIN DISEASES SUCH AS DERMATITIS, PRE-EXISTING LIVER OR KIDNEY CONDITIONS.#

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
 REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

EYE CONTACT:
 IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:
 WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INGESTION:
 GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION IF DISCOMFORT OCCURS.

NOTES TO PHYSICIAN:
 ALTHOUGH THERE IS NO SPECIFIC ANTIDOTE, TREAT PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
	X<--NO		X<--NO		X<--NO		X<--NO		X<--NO

DIETHANOLAMINE
 ORL RAT LD50 710 MG/KG 3.

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(CONTINUED)

SECTION VI - TOXICITY INFORMATION

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SKN RBT LD50 12200 MG/KG 3.
 EYE RBT 5500 MG/SEVERE 3.
 TRIETHANOLAMINE
 ORL RAT LD50 8000MG/KG 3.
 SKN HMN 15MG/3DAY MLD 3.
 EYE RBT 10 MG MLD 3.
 MIXING AMINES WITH NITRITES MAY FORM NITROSAMINES WHICH HAVE BEEN SHOWN TO CAUSE CANCER IN LABORATORY ANIMALS.
 SINCE NITRITES ARE COMMONLY FOUND IN METAL WORKING FLUID ADDITIVES, CARE MUST BE TAKEN TO AVOID MIXING THIS PRODUCT WITH NITRITE CONTAINING MATERIALS. 4.

SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
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N/A

INCOMPATIBILITY (MATERIALS TO AVOID)
 NITRITES, ACIDS, BASES, OXIDIZING AGENTS, ALDEHYDES, KETONES, ACRYLATES, HALIDES.

HAZARDOUS DECOMPOSITION PRODUCTS
 UPON THERMAL DECOMPOSITION, OXIDES OF NITROGEN AND CARBON MAY FORM.

HAZARDOUS	X	WILL NOT OCCUR	MAY	<--OCCUR	CONDITIONS TO AVOID
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POLYMERIZATION	N/A
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SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL.
 USE CARE AS SPILLS MAY BE SLIPPERY.

WASTE DISPOSAL METHOD
 DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

NEUTRALIZING AGENT

N/A

REQUIRED VENTILATION
LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT
CAN GENERATE AEROSOLS AND MISTS.

RESPIRATORY PROTECTION
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE
MISTING EXISTS.

PROTECTIVE GLOVES
NEOPRENE RUBBER OR NITRILE GLOVES.

EYE PROTECTION
SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF
USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION
WORK CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
120 F. <--MAX 35 F <--MIN INDOOR HEATED REFRIGERATED OUTDOOR
X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE IN MODERATE TEMPERATURES.
KEEP FROM FREEZING. IF PRODUCT FREEZES WARM TO
STANDARD ROOM TEMPERATURE SLOWLY AND STIR
THOROUGHLY BEFORE USING.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE
LABEL BEFORE USING THIS PRODUCT.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
DIETHANOLAMINE	111-42-2	5

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.
IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS

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SECTION XI - REGULATORY INFORMATION

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MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
Cadmium(1), Chromium(1), Lead(1), and Nickel(1)
as trace contaminants

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS ID NUMBER REPORT QTY

LABELS LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND
BIOLOGICAL EXPOSURE INDICES, ACGIH, 1994-1995.
 2. OSHA PEL.
 3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION,
RICHARD J. LEWIS SR.
 4. VENDOR'S MSDS.
- *SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE
FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

CERTIFIED LABS, DIV. OF NCH CORP. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A		TRADE NAME & SYNONYMS GERMA-CERT
CHEMICAL FAMILY : QUATERNARY AMMONIUM CHLORIDE		FORMULA X <--MIXTURE
MANUFACTURE'S NAME: CERTIFIED LABS, DIV. OF NCH CORP.		
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVIN G, TEXAS		
PREPARED BY: M DICKSON/CHEMIST	PRODUCT CODE NUMBER 1718	EMERGENCY TELEPHONE NUMBER 972-438-1381

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

CHEMICAL NAME (INGREDIENTS) :		
SODIUM TRIPOLYPHOSPHATE HAZARD----->IRRITANT STEL(TWA)*-->N/E	TLV--->N/E 1 CAS#-->7758-29-4	PEL--->N/E 2.
SODIUM CARBONATE HAZARD----->IRRITANT STEL(TWA)*-->N/E	TLV--->N/E 1 CAS#-->497-19-8	PEL--->N/E 2.
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE HAZARD----->IRRITANT STEL(TWA)*-->N/E	TLV--->N/E 1 CAS#-->87-59-29	PEL--->N/E 2.
ALKYL ETHYLBENZYL AMMONIUM CHLORIDE HAZARD----->IRRITANT STEL(TWA)*-->N/E	TLV--->N/E 1 CAS#-->8001-54-5	PEL--->N/E 2.
ETHYL ALCOHOL HAZARD----->CARC./COMB STEL(TWA)*-->N/E	TLV--->1000PPM 1. CAS#-->64-17-5	PEL--->1000PPM 2.

(CONTINUED) - SECTION II - HAZARDOUS INGREDIENTS

NONYL PHENOL POLYETHYLENE GLYCOL ETHER HAZARD----->IRRITANT STEL(TWA)*-->N/E	TLV--->N/E 1 CAS#-->127087-870	PEL--->N/E 2.
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SECTION III - PHYSICAL DATA

BOILING PT. (F)	212	SPEC. GRAVITY (H2O=1)	1.05
VAPOR PR. (MM HG)	20	COLOR	WATER-WHITE
VAPOR DENSITY	.6	ODOR	NONE
PH. @ 100%	11.5	CLARITY	TRANSPARENT
% VOLATILE BY VOL	>90	EVAPORATION RATE (BU A/C = 1)	0.1
H2O SOLUBILITY	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT: NON-FLAM

FLAMMABLE LIMITS ETHYL ALCOHOL	LEL 3.3	UEL 19
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EXTINGUISHING MEDIA "ALCOHOL"
X <--FOAM X <--FOAM X <--CO2 X <--CHEMICAL X <--WATER X <--SPRAY X <--OTHER

SPECIAL FIRE FIGHTING PROCEDURES
CHOOSE EXTINGUISHING MEDIA BASED ON NATURE OF SURROUNDING FIRE. WEAR
SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.
FROTHING IS POSSIBLE IF WATER OR FOAM IS DIRECTED AT HOT, BURNING POOLS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
SPRAY EXPOSED CONTAINERS WITH WATER SPRAY TO COOL THEM AND PREVENT THE
GENERATION OF STEAM. FUMES OF PHOSPHOROUS AND SODIUM OXIDES, AMMONIA,
OXIDES OF CARBON AND NITROGEN, AND HYDROGEN CHLORIDE MAY FORM UPON BURNING.

(CONTINUED) - SECTION IV - FIRE AND EXPLOSION HAZARD

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):
 1 <--HEALTH 0 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

NOT ESTABLISHED FOR THE MIXTURE. (SEE SECTION II)

EFFECTS OF OVEREXPOSURE :

- ACUTE - (SHORT TERM EXPOSURE)
 EYE CONTACT: CAUSES SEVERE EYE IRRITATION, REDNESS, TEARING, PAIN, SWELLING OF THE CONJUNCTIVA, BURNS, CORNEAL OPACITIES, AND SEVERE EYE DAMAGE ARE POSSIBLE, DEPENDING DEGREE OF EXPOSURE.
 SKIN CONTACT: MAY CAUSE IRRITATION, REDNESS, ITCHING, DISCOMFORT. PROLONGED CONTACT MAY RESULT IN ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS THROUGH THE SKIN.
 INHALATION: BREATHING OF MIST MAY CAUSE RESPIRATORY IRRITATION, NASAL DISCOMFORT/DISCHARGE, CHEST PAIN, AND COUGHING; NAUSEA, LOSS OF MOTOR SKILLS AND DISORIENTATION MAY RESULT DUE TO ETHYL ALCOHOL INGREDIENT.
 INGESTION: CAUSES IMMEDIATE BURNING PAIN IN THE MOUTH, THROAT, AND ABDOMEN, SEVERE SWELLING OF THE LARYNX, SKELETAL MUSCLE PARALYSIS AFFECTING THE ABILITY TO BREATHE, CIRCULATORY SHOCK, CONVULSION, AND MAY BE FATAL. INGESTION OF LARGE QUANTITIES MAY CAUSE IRRITATION OF THE STOMACH, NAUSEA, VOMITING, CRAMPS, DIARRHEA, SHOCK, DECREASED BLOOD PRESSURE, SLOW PULSE, CYANOSIS, COMA, AND HYPOCALCEMIC TETANY.

- CHRONIC - (LONG TERM EXPOSURE)
 CHRONIC INGESTION OF LARGE AMOUNTS OF THIS PRODUCT MAY LEAD TO CARCINOGENIC EFFECTS OF THE LIVER DUE TO ETHYL ALCOHOL COMPONENT (SEE SECTION XIII.)
 TARGET ORGANS: EYES, LUNGS, LIVER, CENTRAL NERVOUS SYSTEM.
 ALTHOUGH THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY, THE PRIMARY ROUTE OF EXPOSURE IS BY EYE AND SKIN CONTACT.
 EXISTING SKIN CONDITIONS MAY BE AGGRAVATED BY SKIN CONTACT.

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

(CONTINUED) - SECTION V - HEALTH HAZARD DATA

INHALATION :
 REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT:
 IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEE A PHYSICIAN.

SKIN CONTACT:
 AVOID CONTACT WITH SKIN. IF CONTACT DOES OCCUR, WASH THE SKIN THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING. IF SKIN IRRITATION OCCURS, CONTACT A PHYSICIAN.

INGESTION :
 IF SWALLOWED, DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION; OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL A PHYSICIAN IMMEDIATELY.

NOTES TO PHYSICIAN :
 PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. MEASURES AGAINST CIRCULATORY SHOCK AS WELL AS OXYGEN AND MEASURES TO SUPPORT BREATHING MANUALLY OR MECHANICALLY MAY BE NEEDED. IF PERSISTENT, CONVULSIONS MAY BE CONTROLLED BY THE CAUTIOUS INTRAVENOUS INJECTION OF A SHORT-ACTING BARBITUATE DRUG.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	X<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	X<--YES
	<--NO	NTP	X<--NO	OSHA	X<--NO	ACGIH	X<--NO	OTHER	<--NO

NONYL PHENOL POLYETHYLENE GLYCOL ETHER:

SKN-RBT 500 MG OPEN MILD 3.

EYE RBT 5 MG SEVERE 3.

ORL-RAT LD50: 1310 MG/KG 3.

SKN-RBT LD50: 2000 MG/KG 3.

QUATERNARY AMMONIUM CHLORIDE:

EYE-HMN 150UG/3D-1 MILD 3.

ETHYL ALCOHOL:

SKN-RBT 500 MG/24H SEV. 3.

EYE-RBT 100 MG 24H MOD 3.

ORL-RAT LD50: 7060 MG/KG 3.

IVN-MUS LD50: 1973 MG/KG 3.

*SEE SECTION XIII FOR CARCINOGENIC

(CONTINUED) - SECTION VI - TOXICITY INFORMATION

ORL-RAT LD50: 280MG/KG 3. INFORMATION ON ETHYL ALCOHOL.
SKN-RAT LD50: 1560MG/KG 3.
SKN-RBT 1MG/24H SEVERE 3.
SKN: PRIMARY IRRITATION INDEX-6.0, SODIUM TRIPOLYPHOSPHATE:
SEVERE IRRITANT 4. ORL-RAT LD50: 4100 MG/KG 3.
EYE: SEVERE IRRITANT 4. SKN-RBT LD50: >4840 MG/KG 3.
SODIUM CARBONATE: ORL-RAT LD50: 4000 MG/KG 3. SKN-RBT: 500 MG/24 H 3.
EYE-RBT: 100 MG/24 H SEVERE 3.
SODIUM CARBONATE:
EYE CONTACT: CORNEAL OPACITIES & IRRITATION OCCURED IN RABBIT EYE TESTS. 5.
SKIN CONTACT: NON-IRRITATING TO INTACT SKIN; MINOR IRRITATION MAY OCCUR ON
ABRADED SKIN. 6. SKIN ABSORPTION: NO SIGNIFICANT HAZARD; NO EFFECT
FROM 50% AQUEOUS SOLUTION IN HUMANS, RABBITS, OR GUINEA PIGS. 6.

SECTION VII - REACTIVITY DATA

STABILITY | X <--STABLE <--UNSTABLE | CONDITIONS TO AVOID

N/A

INCOMPATABILITY (MATERIALS TO AVOID):
STRONG OXIDIZERS, STRONG ACIDS, REDUCING SUGARS, LIME, AND
HYDROXYL COMPOUNDS.

HAZARDOUS DECOMPOSITION PRODUCTS
FUMES OF PHOSPHOROUS, AMMONIA; OXIDES OF SODIUM, CARBON, NITROGEN;
HYDROGEN CHLORIDE; (ALL DUE TO THERMAL DECOMPOSITION)

HAZARDOUS | WILL NOT | MAY | CONDITIONS TO AVOID
POLYMERIZATION | X <--OCCUR <--OCCUR

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

(CONTINUED) - SECTION VIII - SPILL OR LEAK PROCEDURES

STOP LEAK. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT. PLACE INTO
PROPERLY LABELED CONTAINERS FOR PROPER DISPOSAL.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH ALL STATE, FEDERAL AND LOCAL REGULATIONS.
SEE PRODUCT LABEL FOR ADDITIONAL GUIDANCE ON PROPER DISPOSAL PROCEDURES.

NEUTRALIZING AGENT :
N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION :

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREA SHOULD
PROVIDE ADEQUATE VENTILATION TO CONTROL AND MAINTAIN AIRBORNE
CONCENTRATIONS AND MEET OSHA REQUIREMENTS.

RESPIRATORY PROTECTION :
NOT REQUIRED UNLESS RECOMMENDED EXPOSURE LIMITS ARE EXCEEDED IN A POORLY
VENTILATED AREA.

GLOVE PROTECTION :
RUBBER GLOVES

EYE PROTECTION :
CHEMICAL GOGGLES OR FACE SHIELD

OTHER PROTECTION :
ADEQUATE CLOTHING TO PREVENT SKIN CONTACT

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
MAX: 120 F. MIN: 35 F.	X			X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
DO NOT CONTAMINATE WATER, FOOD, OR FEED BY
STORAGE. WEAR GOGGLES OR A FACE SHIELD AND RUBBER
GLOVES WHEN HANDLING. KEEP THE CONTAINER CLOSED
WHEN STORED.

OTHER PRECAUTIONS
READ THE ENTIRE LABEL BEFORE USING.
KEEP OUT OF REACH OF CHILDREN.
AVOID EYE AND SKIN CONTACT.
FOLLOW LABEL DIRECTIONS CAREFULLY.
AVOID CONTAMINATION OF FOOD.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S NUMBER	UPPER % LIMIT
GLYCOL ETHERS	N/A	5

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.
IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED
AND LABELED FOR MAINTAINING MOTOR VEHICLES.

CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO
THE STATE OF CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR
OTHER REPRODUCTIVE HARM:
Acetaldehyde (1), Dioxane (1), Ethylene oxide (1), and Formaldehyde (1) as
trace components.

(CONTINUED) - CALIFORNIA PROPOSITION 65

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

LABELS	LIMITED QTY
UNIT CONTAINER	
DOT SPS CONTAINER	NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)	

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1993-1994.
2. OSHA PEL.
3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 7TH EDITION, N. IRVING SAX AND RICHARD J. LEWIS, SR.
4. VENDOR'S MSDS.
5. TOXICOLOGY 23: 281-291, 1982.
6. GIG, TR, PROF. ZAROL 11: 55-57, 1976.
7. TOMES(R): TOXICITY, OCCUPATIONAL MEDICINE AND ENVIRONMENTAL SERIES. ADDITIONAL TOXICITY INFORMATION FOR ETHYL ALCOHOL: IARC HAS RECENTLY DETERMINED THAT ETHYL ALCOHOL IS A CARCINOGEN AFFECTING THE LIVER, BASED ON CHRONIC LIVER EXPOSURE THROUGH HUMAN CONSUMPTION VIA THE DRINKING OF ALCOHOLIC BEVERAGES OVER AN EXTENDED PERIOD OF TIME. ADDITIONALLY, ORAL CONSUMPTION OF ETHYL ALCOHOL BY PREGNANT WOMEN HAS CAUSED DEFORMITIES IN THE FETUS KNOWN AS FETAL ALCOHOL SYNDROME. USE OF THIS PRODUCT FOR ITS INTENDED PURPOSE SHOULD NOT POSE THIS HAZARD. 7.

* SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

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CERTIFIED LABS, DIV. OF NCH CORP. ASSUMES NO RESPONSIBILITY FOR PERSONAL

(CONTINUED) - SECTION XIII - REFERENCES

INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE
OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE
PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH
UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED:09/21/90

***** I. PRODUCT IDENTIFICATION *****
MOBILMET SIGMA

SUPPLIER: MOBIL OIL CORP. HEALTH EMERGENCY TELEPHONE: (609) 737-4411
CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES TRANSPORT EMERGENCY TELEPHONE: (800) 424-9300 (CHEMTREC)
USE OR DESCRIPTION: CUTTING FLUID PRODUCT TECHNICAL INFORMATION: (800) 662-4525

***** II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES *****

APPEARANCE: BROWN LIQUID ODOR: MILD PH: NA
VISCOSITY AT 100 F, SUS: 156.0 AT 40 C, CS: 30.2
VISCOSITY AT 210 F, SUS: 44.0 AT 100 C, CS: 5.4
FLASH POINT F(C): > 350(177) (ASTM D-93)
MELTING POINT F(C): NA POUR POINT F(C): 30(-1)
BOILING POINT F(C): > 600(316)
RELATIVE DENSITY, 15/4 C: 0.874 SOLUBILITY IN WATER: NEGLIGIBLE
VAPOR PRESSURE-MM HG 20C: < .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER INFORMATION, CONTACT YOUR LOCAL MARKETING OFFICE.

***** III. POTENTIALLY HAZARDOUS INGREDIENTS *****

NONE

SEE SECTIONS XII AND XIII FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A=ACGIH-TLV, A*=SUGGESTED-TLV, M=MOBIL, O=OSHA, S=SUPPLIER
NOTE: LIMITS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

***** IV. HEALTH HAZARD DATA *****

--- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---
THRESHOLD LIMIT VALUE: 5.00 MG/M3 (SOURCES: A,M,O) FOR OIL MIST
EFFECTS OF OVEREXPOSURE: SLIGHT SKIN IRRITATION.

***** V. EMERGENCY AND FIRST AID PROCEDURES *****

--- FOR PRIMARY ROUTES OF ENTRY ---

EYE CONTACT: FLUSH WITH WATER.
SKIN CONTACT: WASH CONTACT AREAS WITH SOAP AND WATER.
INHALATION: NOT EXPECTED TO BE A PROBLEM.
INGESTION: NOT EXPECTED TO BE A PROBLEM. HOWEVER, IF GREATER THAN 1/2 LITER(PINT) INGESTED, IMMEDIATELY GIVE 1 TO 2 GLASSES OF WATER AND CALL A PHYSICIAN, HOSPITAL EMERGENCY ROOM OR POISON CONTROL CENTER FOR ASSISTANCE. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

***** VI. FIRE AND EXPLOSION HAZARD DATA *****

FLASH POINT F(C): > 350(177) (ASTM D-93)

FLAMMABLE LIMITS. LEL: .6 UEL: 7.0

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES: WATER OR FOAM MAY CAUSE FROTHING.

USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE. FOR FIRES IN ENCLOSED

AREAS, FIREFIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.

PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS OR DRINKING WATER SUPPLY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

NFPA HAZARD ID: HEALTH: 0, FLAMMABILITY: 1, REACTIVITY: 0

***** VII. REACTIVITY DATA *****

STABILITY (THERMAL, LIGHT, ETC.): STABLE

CONDITIONS TO AVOID: EXTREME HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

***** VIII. SPILL OR LEAK PROCEDURE *****

ENVIRONMENTAL IMPACT: REPORT SPILLS AS REQUIRED TO APPROPRIATE

AUTHORITIES. U. S. COAST GUARD REGULATIONS REQUIRE IMMEDIATE

REPORTING OF SPILLS THAT COULD REACH ANY WATERWAY INCLUDING

INTERMITTENT DRY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE

NUMBER (800) 424-8802. IN CASE OF ACCIDENT OR ROAD SPILL NOTIFY

CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: ADSORB ON FIRE RETARDANT

TREATED SAWDUST, DIATOMACEOUS EARTH, ETC. SHOVEL UP AND DISPOSE OF

AT AN APPROPRIATE WASTE DISPOSAL FACILITY IN ACCORDANCE WITH

CURRENT APPLICABLE LAWS AND REGULATIONS, AND PRODUCT

CHARACTERISTICS AT TIME OF DISPOSAL.

WASTE MANAGEMENT: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED,

CONTROLLED BURNER FOR FUEL VALUE OR DISPOSAL BY SUPERVISED

INCINERATION. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE

CONSERVATION AND RECOVERY ACT. IN ADDITION, THE PRODUCT IS

SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE

DISPOSED OF AT ANY GOVERNMENT APPROVED WASTE DISPOSAL FACILITY.

USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE WITH APPLICABLE

LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT CHARACTERISTICS

AT TIME OF DISPOSAL.

***** IX. SPECIAL PROTECTION INFORMATION *****

EYE PROTECTION: NO SPECIAL EQUIPMENT REQUIRED.

SKIN PROTECTION: NO SPECIAL EQUIPMENT REQUIRED. HOWEVER, GOOD PERSONAL

HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY

CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

VENTILATION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE

AND WITH ADEQUATE VENTILATION.

***** X. SPECIAL PRECAUTIONS *****

MATERIALS MUST BE LABELED AS: SEE APPENDIX FOR PRECAUTIONARY LABEL: FL-

388

***** XI. TOXICOLOGICAL DATA *****

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): LD50: > 5 G/KG SLIGHTLY TOXIC (ESTIMATED) ---
BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.
DERMAL TOXICITY (RABBITS): LD50: > 5 G/KG NONTOXIC (ESTIMATED) ---
BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.
INHALATION TOXICITY (RATS): LC50: >5 MG/L FOR 4 HRS.0/10RATS DIED AT
THIS DOSAGE LEVEL. PRACTICALLY NONTOXIC
EYE IRRITATION (RABBITS): EXPECTED TO BE NON-IRRITATING. ---BASED ON
TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.
SKIN IRRITATION (RABBITS): SLIGHTLY IRRITATING TO RABBITS.
OTHER ACUTE TOXICITY DATA: ****THIS MIXTURE OR A SIMILAR MIXTURE DID
NOT RESULT IN ANY FATALITIES TO RATS AT CONCENTRATIONS (SEE
INHALATION TOXICITY ABOVE) SUBSTANTIALLY HIGHER THAN THE 5 MG/M3
TLV SUGGESTED FOR OIL MISTS.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

SEVERELY SOLVENT REFINED AND SEVERELY HYDROTREATED MINERAL BASE OILS
HAVE BEEN TESTED AT MOBIL ENVIRONMENTAL AND HEALTH SCIENCES
LABORATORY BY DERMAL APPLICATION TO RATS 5 DAYS/WEEK FOR 90 DAYS AT
DOSES SIGNIFICANTLY HIGHER THAN THOSE EXPECTED DURING NORMAL
INDUSTRIAL EXPOSURE. EXTENSIVE EVALUATIONS INCLUDING MICROSCOPIC
EXAMINATION OF INTERNAL ORGANS AND CLINICAL CHEMISTRY OF BODY
FLUIDS, SHOWED NO ADVERSE EFFECTS.

---CHRONIC TOXICOLOGY (SUMMARY)---

THE BASE OILS IN THIS PRODUCT ARE SEVERELY SOLVENT REFINED AND/OR
SEVERELY HYDROTREATED. CHRONIC MOUSE SKIN PAINTING STUDIES OF
SIMILAR OILS SHOWED NO EVIDENCE OF CARCINOGENIC EFFECTS.

***** XII. REGULATORY INFORMATION *****
GOVERNMENTAL INVENTORY STATUS: ALL COMPONENTS REGISTERED IN ACCORDANCE
WITH TSCA.

DOT:

SHIPPING NAME: NOT APPLICABLE
HAZARD CLASS: NOT APPLICABLE

US OSHA HAZARD COMMUNICATION STANDARD: THIS PRODUCT MAY BE USED IN
CERTAIN APPLICATIONS WHERE MISTING CAN OCCUR. ACCORDING TO OSHA 29
CFR 1910.1200, CERTAIN MINERAL OIL MISTS MAY BE CONSIDERED
HAZARDOUS IF THE WORKPLACE AIRBORNE CONCENTRATION EXCEEDS 5 MG/M3
(ACGIH TLV).

RCRA INFORMATION: THE UNUSED PRODUCT, IN OUR OPINION, IS NOT
SPECIFICALLY LISTED BY THE EPA AS A HAZARDOUS WASTE (40 CFR,
PART 261D); DOES NOT EXHIBIT THE HAZARDOUS CHARACTERISTICS OF
IGNITABILITY, CORROSIVITY, OR REACTIVITY, AND IS NOT FORMULATED
WITH THE CONTAMINANTS LISTED IN THE TOXICITY CHARACTERISTIC (TC)
RULE AS DETERMINED BY THE TOXICITY CHARACTERISTIC LEACHING
PROCEDURE (TCLP). HOWEVER, USED PRODUCT MAY BE REGULATED.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:
THIS PRODUCT CONTAINS NO "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (302) REPORTABLE HAZARD CATEGORIES: NONE

THIS PRODUCT CONTAINS NO CHEMICALS REPORTABLE UNDER
SARA (313) TOXIC RELEASE PROGRAM.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
(OIL MIST)		1,2,10,11
SULFUR (ELEMENTAL ANALYSIS)	7704-34-9	7, 9, 12, 14, 16, 17

--- KEY TO LIST CITATIONS ---

1 = OSHA Z, 2 = ACGIH, 3 = IARC, 4 = NTP, 5 = NCI,
6 = EPA CARC, 7 = NFPA 49, 8 = NFPA 325M, 9 = DOT HMT, 10 = CA RTK,
11 = IL RTK, 12 = MA RTK, 13 = MN RTK, 14 = NJ RTK, 15 = MI 293,
16 = FL RTK, 17 = PA RTK, 18 = CA P65.

--- NTP, IARC, AND OSHA INCLUDE CARCINOGENIC LISTINGS ---

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

***** XIII. INGREDIENTS *****

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
<----->	<-->	<----->
CONTAINS ONE OR MORE OF THE FOLLOWING	> 90.00	
BASE OILS:		
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC		64742-54-7
PARAFFIN OILS, SULFURIZED		68201-54-7
POLY(OXY(METHYL-1,2-ETHANEDIYL)), 1-HYDRO-HYDROXY-, ESTERS WITH SUCCINIC ANHYDRIDE	< 2.00	71820-32-1
POLYISOBUTENYL DERIVATIVES		
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH BISPHENOL A, C18-UNSATD., FATTY ACID TRIMERS AND EPICHLOROHYDRIN	< 4.00	68991-71-9

***** PRECAUTIONARY LABEL TEXT *****

CAUTION

WHEN USE CONDITIONS ARE LIKELY TO RESULT IN EXCESSIVE MISTING (GREATER THEN 5 MG/M3), PROVIDE ADEQUATE LOCAL VENTILATION OR RESPIRATORY PROTECTION.

ATTENTION

EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING FLAMMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNINGS AND PRECAUTIONS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN THOROUGHLY CLEANED OR DESTROYED.

REFER TO PRODUCT MATERIAL SAFETY DATA BULLETIN FOR FURTHER SAFETY AND HEALTH INFORMATION.

FL-388(3/85)

SHIPPING NAME: NOT APPLICABLE
HAZARD CLASS: NOT APPLICABLE

***** APPENDIX *****

FOR MOBIL USE ONLY: (FILL NO: MTJ3781M035) MCN: , MHC: 1* 0* 0 0* 1,
MPPEC: A, PPEC: A, US90-340 APPROVE 07/26/90

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT
WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR
PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT
ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL
WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE
USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A
RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING
LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING
PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

PREPARED BY: MOBIL OIL CORPORATION

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, PRINCETON, NJ

FOR FURTHER INFORMATION, CONTACT:

MOBIL OIL CORPORATION, PRODUCT FORMULATION AND QUALITY CONTROL

3225 GALLOWES ROAD, FAIRFAX, VA 22037 (800) 227-0707 X3265

Facility: EAGLE ENGINEERING Date: 4-7-04 Arrival time: 8:58 AM
DRIVE-BY

1. Drive-by conducted from public right-of-way? ☒ Yes ☐ No

Determine the direction "North" with respect to the facility and provide a brief sketch of the layout and orientation (as can be viewed from the public right-of-way):

3. Obvious concerns visible from public right-of-way (photos)? ☐ Yes ☒ No

- Containers	- Tanks- Processing Equipment
- Loading Areas	- Unloading Areas
- Open Drums	- Security Devices
- Unusual Odors	- Stressed Vegetation- Unusual Staining
- Safety Concerns	- Obvious Discharges
- Improper Disposal	- Other Concerns

SITE ENTRY AND INBRIEFING

1. ☒ Used main entrance ☒ Entered during normal operating hours
☐ Excessive delays (>15 minutes - denial of access?) - ☒ No

2. Facility Representative(s): JAMES W. PARR Title: PLANT MANAGER
JIM PARR Title: MAINTENANCE SUPERVISOR
BETTY PERICH Title: POLLUTION ABATE

3. Does representative have intimate knowledge of all waste management practices?
☒ Yes ☐ No How long in position? 1990

4. Introduction:

- ☒ Presented credentials
- ☒ Explained responsibility to provide accurate information and provided copies of Section 1001 and 1002 U.S.C. to facility
- ☒ Verified presence at correct facility (checked address/I.D. #)
- ☒ Explained authority to conduct inspection (Section 3007 of RCRA)
- ☒ Identified personal safety considerations: SAFETY GLASSES
- ☒ Explained the purpose, scope, and order of the inspection
- ☒ Completed Multimedia screening checklist
- ☒ Explained documentation process - worksheets, checklists, photo's, notes, statements, etc
- ☒ Provided SBRFA
- ☐ Obtained GPS reading
- ☒ Explained facility's right to claim CBI

5. Was full access granted?

☒ Yes ☒ By facility representative or Other(name): _____
☐ No - Access denied Name of person denying access: _____
Time of denial: _____

Reason for denial, or limitations placed on access:

1. Site history:

Date facility began operating: 1998 Number of employees: 55
 Number of shifts/hours worked: 2 Number of days worked per week: 5
 Size (sq. ft., how divided): 28,000

7:00-3:30
3:30-12:00

Property owner and facility operator the same? ☒ YES ☐ NO

2. Major products or services provided: TOOL & DIE SHOP

3. Major raw materials used: METAL

4. Major manufacturing or processing operations which generate waste streams:
 (provide brief description)

Operation/Process

Waste Stream(s)

PANTS WASHER

WASTE SOLVENT

SERVICING MACHINES

USED OIL

CLEANING OFFICE/SHOP AREA

GENERAL TRASH

5. Complete a Generator Waste Stream Worksheet and/or Off-Site Waste Stream Worksheet for the waste streams noted above and then finish this form.

5. Complete a Generator Waste Stream Worksheet and/or Off-Site Waste Stream Worksheet for the waste streams noted above and then finish this form.

6. Verified/compared above information with facility Notification Form: ☒ YES ☐ NO

7. **GENERATOR STATUS:** (based on records review)

- ☐ Non-generator
☒ CE (0-100kg/mo or 1 kg/mo acute waste and accumulate <1000 kg or 1 kg acute waste or 100 kg of acute spill residue)
☐ SQG (100-1000kg/mo and accumulate <6000 kg)
☐ LQG (>1000kg/mo)

Is facility's status solidly within above category? ☐ YES ☐ NO
(If not carefully verify status and document)

8. **TSD STATUS:** ☐ Treatment ☐ Storage ☐ Disposal

Note: Types of units, number of units, capacities, processes, etc.

N/A

9. Resolved questions from Pre-Inspection Worksheet? ☒ YES ☐ NO ☐ No Questions

10. Resolved compliance officers questions from Pre-Inspection Worksheet? ☒ YES ☐ NO ☐ No Questions

11. Requested site map or diagram to identify all observations? ☐ YES ☒ None available

1. WASTE STREAM: WASTE SOLVENT (SAFETY-KLEEN105)FACILITY DETERMINATION: ☒ Hazardous ☐ Nonhazardous ☐ Not done ☐ InadequateWASTE CODES: D001, D018, D039, D040DETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testingDocumentation: MSDSGENERATING PROCESS: PANTS WASHERGENERATION RATE: 30 gal every 3 monthsON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☐ visually inspectedProduct until picked upOFF-SITE MANAGEMENT / DISPOSITION: SAFETY-KLEEN2. WASTE STREAM: WASTE SOLVENT (MINERAL SPIRITS)FACILITY DETERMINATION: ☒ Hazardous ☐ Nonhazardous ☐ Not done ☐ InadequateWASTE CODES: D001, F003, F005DETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testingDocumentation: MSDSGENERATING PROCESS: MSDS PANTS WASHERGENERATION RATE: 30 gal every 3 monthsON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☐ visually inspectedProduct until picked upOFF-SITE MANAGEMENT / DISPOSITION: RILCO FLUID CARE3. WASTE STREAM: USED OILFACILITY DETERMINATION: ☐ Hazardous ☒ Nonhazardous ☐ Not done ☐ InadequateWASTE CODES: USED OILDETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testing

Documentation: _____

GENERATING PROCESS: LUBRICATION FOR HORIZONTAL BOREGENERATION RATE: 55 gal/moON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☒ visually inspected75 gal TOTEOFF-SITE MANAGEMENT / DISPOSITION: RILCO FLUID CARE

4. WASTE STREAM: COOLANT/CUTTING OILFACILITY DETERMINATION: ☐ Hazardous ☒ Nonhazardous ☐ Not done ☐ InadequateWASTE CODES: USED OILDETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testingDocumentation: MSDS - LONG-LIFE 3020GENERATING PROCESS: COOLANT/LUBRICATING (GRINDER)GENERATION RATE: 20 GAL/MOON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☒ visually inspectedOFF-SITE MANAGEMENT / DISPOSITION: RILCO FLUID CARE5. WASTE STREAM: COOLANT/CUTTING OILFACILITY DETERMINATION: ☐ Hazardous ☒ Nonhazardous ☐ Not done ☐ InadequateWASTE CODES: USED OILDETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testingDocumentation: MSDS - BERMA-CENTGENERATING PROCESS: COOLANT/CUTTING OIL BLANCHARD GRINDERGENERATION RATE: 20 GAL/MOON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☒ visually inspectedOFF-SITE MANAGEMENT / DISPOSITION: RILCO FLUID CARE6. WASTE STREAM: OFFICE/FACILITY WASTEFACILITY DETERMINATION: ☐ Hazardous ☒ Nonhazardous ☐ Not done ☐ Inadequate

WASTE CODES: _____

DETERMINATION METHOD: ☒ product knowledge ☐ process knowledge ☐ testing

Documentation: _____

GENERATING PROCESS: PAPER/PAPER TOWELS/PAPER CUPS -GENERATION RATE: -ON-SITE MANAGEMENT: satellites ☐ visually inspected storage ☐ visually inspectedOFF-SITE MANAGEMENT / DISPOSITION: LANDFILL

J. USED OIL - RCRA INSPECTION CHECKLIST

1. What Used Oil activities does the facility engage in? COOLING & LUBRICATING

- a. Type of used oil generated? Mixed oil water
b. Amount of used oil generated? 55 gal/mo

40 CFR 279.12 Prohibition Questions

- Is used oil being managed only in a surface impoundment or waste pile subject to regulation under 40 CFR Parts 264 or 265? ☐ Yes ☒ No ☐ Not Applicable (NA)
2. Is used oil being used as a dust suppressant? ☐ Yes ☒ No
3. Is off-specification oil fuel burned for energy recovery in only industrial furnaces, industrial boilers, utility boilers, used oil-fired space heaters, or hazardous waste incinerators identified in 40 CFR Part 279.12 (C)(1-3)? ☐ No ☒ Yes

Subpart C - Standards for Used Oil Generators

(Check here ☐ if this section is NA)

Instructions: Fill out this section if the facility generates used oil or if facility activities first caused the used oil to become subject to regulation (see definition and applicability of used oil generator in 40 CFR 279.20). Used oil generators are subject to all applicable Spill Prevention, Control and Countermeasures (SPCC) requirements (40 CFR Part 112) and underground storage tank standards (40 CFR Part 280) in addition to the requirements of Subpart C.

Regulation and Standard		Violations
279.21 Hazardous Waste Mixing I. Is the generator mixing hazardous waste with used oil? If yes, is the generator of a used oil containing greater than 1,000 parts per million (ppm) total halogens managing the used oil as a hazardous waste unless the used oil presumption is rebutted? 2. Are analytical data available?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
279.22 Used Oil Storage I. Does the generator only store used oil in tanks, containers, or units subject to regulation under 40 CFR Parts 264 or 265? II. Are containers and aboveground tanks used by a generator to store used oil in good condition, with no visible leaks? III. Are containers, aboveground tanks, and fill pipes used for underground tanks labeled or marked "Used Oil"? IV. Upon detection of a release of used oil, has the generator A. Stopped the release? B. Contained the release? C. Cleaned up and managed the used oil and other materials? D. Repaired or replaced the containers or tanks prior to returning them to service, if necessary?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
279.23 On-Site Burning in Space Heaters Is the generator burning used oil in used oil fired space heaters only when A. The heater burns only used oil that the owner or operator generates or used oil received from household do-it-yourself generators? B. The heater is designed to have a maximum capacity of not more than 0.5 million British Thermal Units per hour? C. The combustion gases from the heater are vented to ambient air?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
279.24 Off-Site Shipment 1. Has the generator ensured that the used oil is hauled only by a transporter that has obtained a U.S. Environmental Protection Agency (EPA) identification (ID) number? 2. Does the generator have a tolling arrangement with a transporter without an EPA ID number? <i>If yes, answer the three following questions. If no, move to question 6.</i> 3. Is the used oil reclaimed and returned by the processor or re-refiner to the generator for use as a lubricant, cutting oil, or coolant? 4. Does the tolling contract indicate the type of used oil and the frequency of shipment? 5. Is the vehicle used to transport the used oil to the processing or re-refining facility and to deliver recycled used oil back to the generator owned and operated by the used oil processor or re-refiner? 6. Does the generator transport used oil generated at the generator's site or used oil collected from household do-it-yourselfers to a used oil collection center or to aggregation points owned by the generator?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Regulation and Standard		Violations
7. Does the generator transport used oil in a vehicle owned by the generator or an employee of the generator? 8. Does the generator transport no more than 55 gallons of used oil at any time? 9. Does the generator transport the used oil to a used oil collection center that is registered, licensed, permitted, or recognized by a state/county/municipal government to manage used oil?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

For further Used Oil questions refer to Appendix 2-4:

Support D - Standards for Used Oil Collection Centers and Aggregation Points
Support E - Standards for Used Oil Transporters and Transfer Centers
Support F - Standards for Used Oil Processors and Re-Refiners
Support G - Standards for Used Oil Burners Who Burn Off-Specification Used Oil for Energy Recovery
Support H - Standards for Used Oil Fuel Marketers

EXIT BRIEFING

1. Reviewed all data collected and documented all concerns or violations? ☒ Yes ☐ No

- Location of the violation, type and amount of waste involved, time frame,
- Illegal units - unit location (diagram/picture), dimensions, conditions, information.
- Illegal disposal - how, when (each occurrence), where sent or disposed of, how

frequency, specific dates & when first started occurred
construction material, gradient of the base (for spills), other
shipped, who shipped, when shipped/disposed of, quantity

☒ Identified/verified violations from previous inspection were corrected (if

applicable)

☒ Addressed all unresolved inspection related issues

☒ Summarized findings and observations for the facility representatives

NOV issued? ☒ Yes ☐ No

☒ Violations clearly identified and regulations

explained, including: circumstances, location, and applicable

☒ Explained the importance of a timely (14 day) and adequate response

☒ Explained that findings and observations are based on your current knowledge of RCRA and that the final findings may differ

☒ Explained that compliance officer will make the final compliance decisions and that all compliance questions should be directed toward them

☒ Explained that recommendations provided are for informational purposes only and DO NOT require specific actions by the facility

☒ Provided facility with CBI form

☒ Prepared Document Receipt form

3. Specific information requested from facility? ☒ Yes ☐ No

4. Facility appears to have awareness of RCRA regulations ☒ Yes ☐ No

5. Facility has its own environmental staff? ☐ Yes ☒ No

6. Facility has copy of applicable regulations? ☐ Yes ☒ No

7. Attitude and demeanor of facility representative(s): ☒ OK ☐ Not OK

Notes/Observations: VIOLATION CORRECTED WHILE ON-SITE

Air	RCRA	Water	Other specify
	X		

Document Control Check Sheet

Activity Number: IAR000006288

Facility/Site Name and Location: Eagle Engineering, Inc.

State:

2701 South 1st Street

Eldridge, IA 52748

IA

KS

MO

NE

X

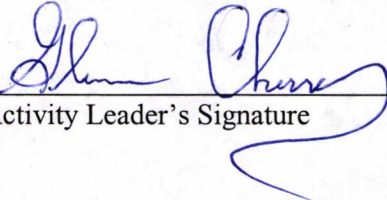
The following documents pertaining to this activity are contained in this package:

<u>Document</u>		<u>Yes</u>	<u>No</u>	<u>NA</u>
Final report w/attachments	74 Pages	(x)	()	()
Field Sheets	7 Pages	(x)	()	()
Chain-of-Custody Records	Pages	()	(x)	()
Field Notes	Pages	()	(x)	()
Analytical Data Sheets	Pages	()	(x)	()
Photographic Negatives	1 Pages	(x)	()	()
Photographs (not included w/report)	Pages	()	(x)	()
Preinspection Packet	Pages	()	(x)	()
Other Documents (list below)				
	Pages			
	Pages			
	Pages			

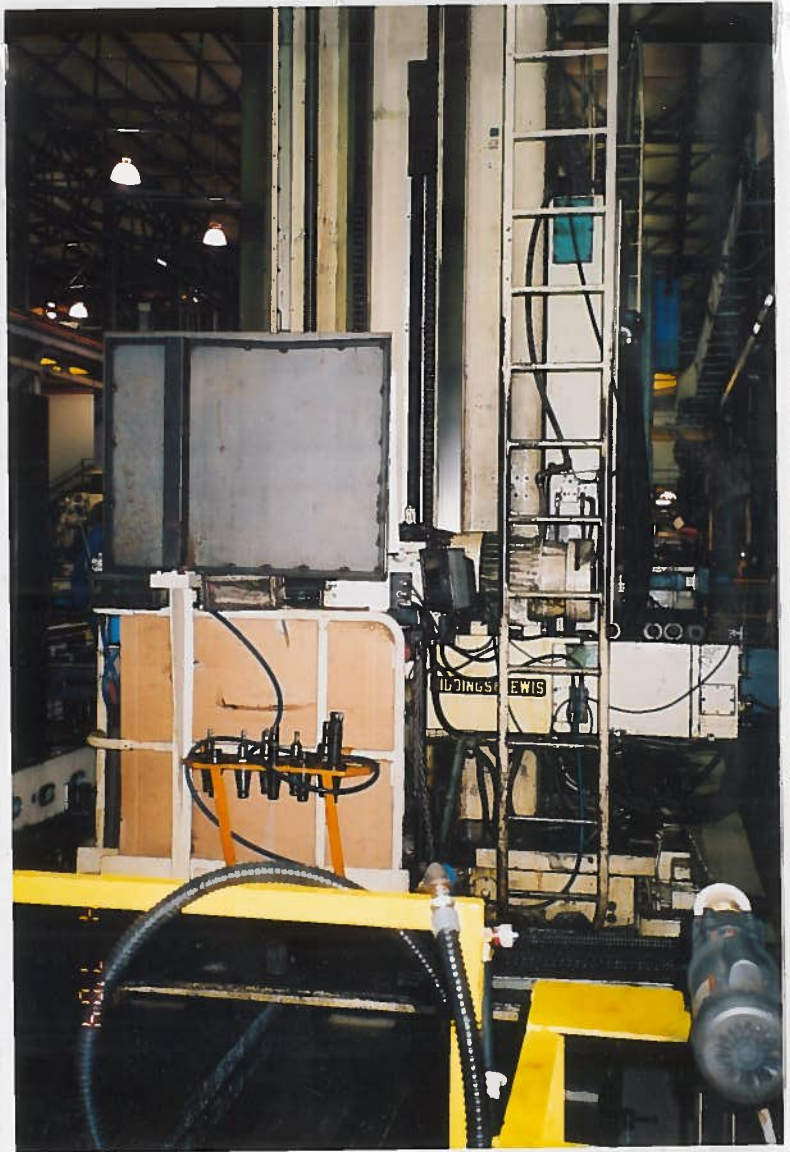
(Note: If additional space is needed to list specific documents, utilize reverse side.)

CERTIFICATION

I, the undersigned, certify that all of the documents pertaining to this activity that were in my possession have been listed above and were included in this package at the time this statement was signed.


Activity Leader's Signature

4-21-04
Date Signed



Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 1

04/07/04
NOWCC/SEE

Exterior view of Eagle Engineering building. Photo looking to the northeast.

(No. 2)

012 NA 041

3004

Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 2
Parts washer near the center, south, side of the shop area. The parts washer is a Kleentec Electric-Operated Parts Washer w/floor stand, 45 gallon, Model KTE1045. Photo looking southeast.

(No. 3)

011 NA 04

3003

Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 3
04/07/04
NOWCC/SEE

Horizontal boring machine in the northeast corner of the shop area. Photo looking to the northeast.

3000

000 NA 01

(No. 6)



Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 4

04/07/04
NOWCC/SEE

55 gallon drum of coolant for the horizontal boring machine.
Drum is adjacent to the reservoir beneath the machine. Photo
looking to the north.

Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 5

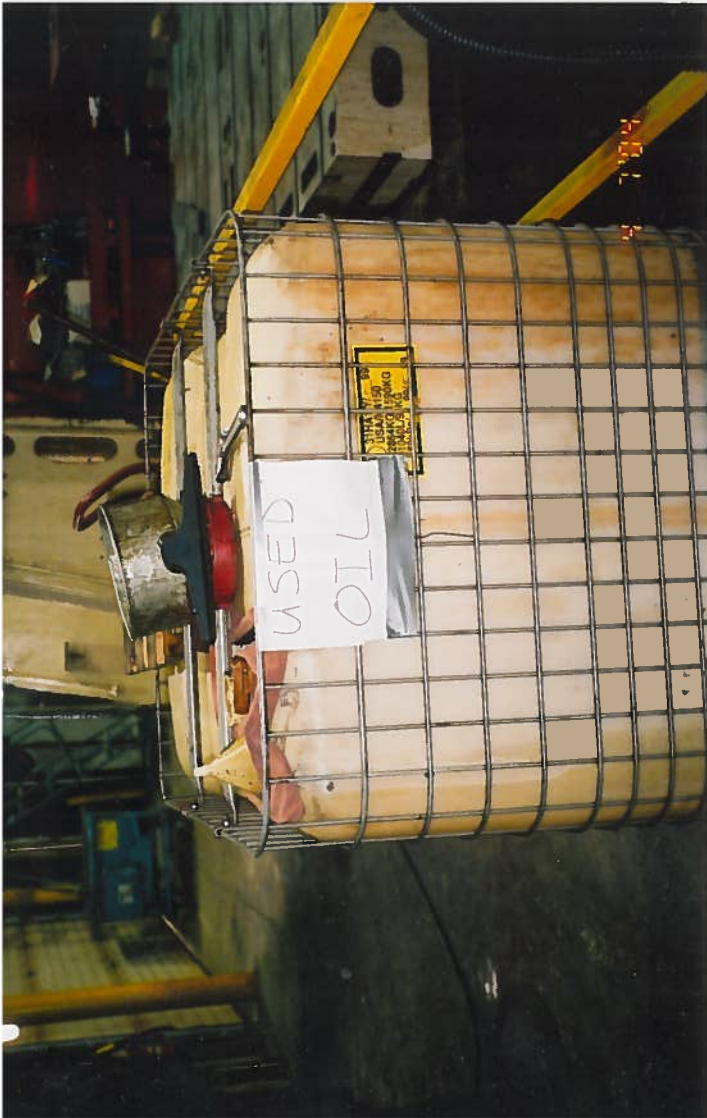
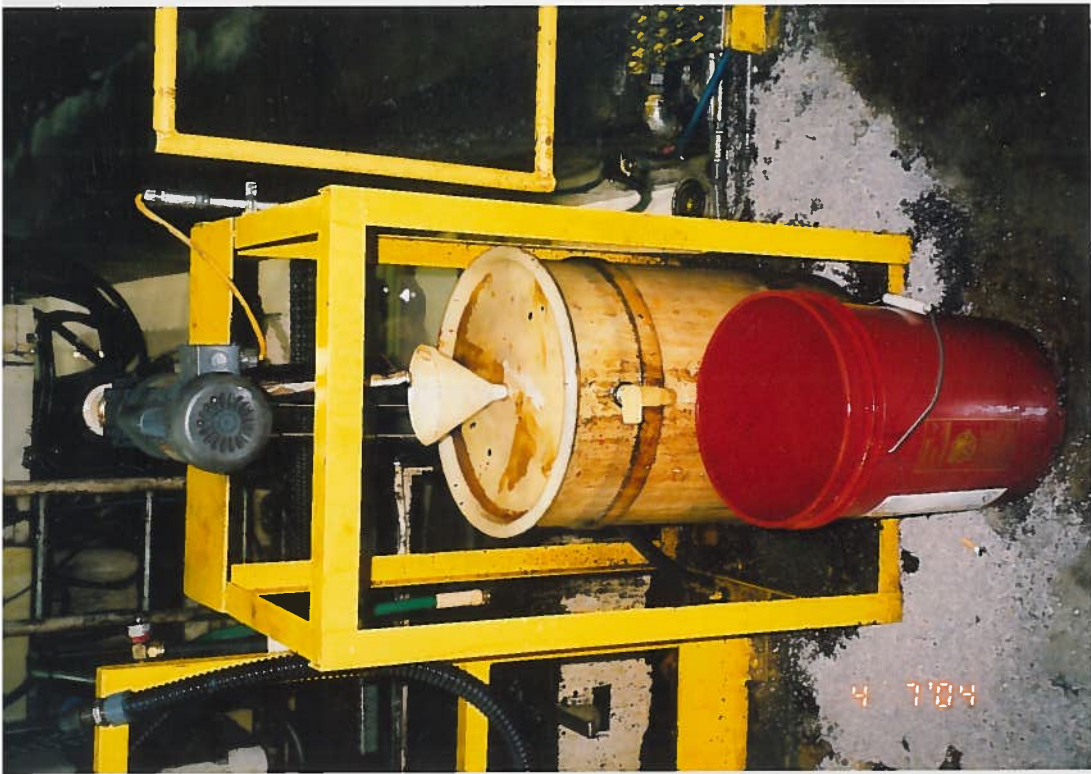
04/07/04
NOWCC/SEE

Close-up photo of the label on top of the 55 gallon drum of coolant
for the horizontal boring machine. Photo looking to the east.

Eagle Engineering, Inc. IAR000006288
Glenn Cherry
Photo 6

04/07/04
NOWCC/SEE

Reservoir at bottom of horizontal boring machine. Oily residue
floating on top in center of photo, separator on the left. Photo
looking to the southwest.



Eagle Engineering, Inc. IAR000006288

Glenn Cherry

Photo 8

04/07/04

NOWCC/SEE

75 gallon tote for storage of used oil collected from the reservoir of coolant for the horizontal boring machine. Photo looking to the south.

3077

Eagle Engineering, Inc. IAR000006288

Glenn Cherry

Photo 9

04/07/04

NOWCC/SEE

Reservoir, containing coolant/used oil, on the back of the surface grinder. Photo looking to the northeast.

3074

Eagle Engineering, Inc. IAR000006288

Glenn Cherry

Photo 7

04/07/04

NOWCC/SEE

Separator is white container in the middle of the photo. The oil is suctioned from the top of the coolant and drips into the funnel on top of the container. 5 gallon container in the foreground is used to pour the used oil into the tote. Photo looking west.

3081